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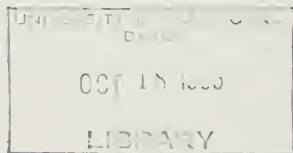
State of California  
THE RESOURCES AGENCY  
Department of Water Resources

BULLETIN No. 130-64

HYDROLOGIC DATA: 1964

Volume V: SOUTHERN CALIFORNIA

AUGUST 1966



HUGO FISHER  
*Administrator*  
The Resources Agency

EDMUND G. BROWN  
*Governor*  
State of California

WILLIAM E. WARNE  
*Director*  
Department of Water Resources



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ORGANIZATION OF BULLETIN NO. 130 SERIES

- Volume I - NORTH COASTAL AREA
- Volume II - NORTHEASTERN CALIFORNIA
- Volume III - CENTRAL COASTAL AREA
- Volume IV - SAN JOAQUIN VALLEY
- Volume V - SOUTHERN CALIFORNIA

Each volume consists of the following:

TEXT and

- Appendix A - CLIMATE
- Appendix B - SURFACE WATER FLOW
- Appendix C - GROUND WATER MEASUREMENTS
- Appendix D - SURFACE WATER QUALITY
- Appendix E - GROUND WATER QUALITY



SCALE OF MILES

40 0 40 80

- I NORTH COASTAL AREA  
II NORTHEASTERN CALIFORNIA  
III CENTRAL COASTAL AREA  
IV SAN JOAQUIN VALLEY  
V SOUTHERN CALIFORNIA

# METRIC CONVERSION TABLE


ENGLISH UNIT	EQUIVALENT METRIC UNIT
Inch (in)	2.54 Centimeters
Foot (ft)	0.3048 Meter
Mile (mi)	1.609 Kilometers
Acre	0.405 Hectare
Square mile (sq. mi.)	2.590 Square kilometer
U. S. gallon (gal)	3.785 Liters
Acre foot (acre-ft)	1,233.5 Cubic meters
U. S. gallon per minute (gpm)	0.0631 Liters per second
Cubic feet per second (cfs)	1.7 Cubic meters per minute

## FOREWORD

The Bulletin No. 130 series of reports is an integral part of the basic data program of the Department. This program has been designed to supplement the activities of other agencies by collecting data not available elsewhere and by publishing hydrologic data in a single series of publications.

This series of reports contains data on surface water, ground water, and climate previously published annually in Bulletins Nos. 23, 39, 65, 66, and 67. The series will be published annually in five volumes, each volume to report hydrologic data for one of five specific reporting areas of the State.

The collection and publication of data in this report is authorized by Sections 225, 226, 229, 230, 232, 345, 12609, and 12616 of the Water Code of the State of California

A handwritten signature in dark ink, appearing to read "William E. Warne". The signature is fluid and cursive, with the first name "William" and last name "Warne" clearly distinguishable.

William E. Warne, Director  
Department of Water Resources  
The Resources Agency  
State of California

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## ACKNOWLEDGMENT

The Department of Water Resources gratefully acknowledges the assistance and contributions of the many public agencies, private organizations, and individuals whose cooperation has greatly facilitated the preparation of this bulletin. In this regard, special mention is made of the following:

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- California Water Quality Control Board
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- City of Long Beach, Water Department
- City of Los Angeles, Department of Public Health
- City of Los Angeles, Department of Water and Power
- City of San Diego
- Coachella Valley County Water District
- Imperial Irrigation District
- Los Angeles County Flood Control District
- Orange County Flood Control District
- Riverside County Flood Control and Water Conservation District
- San Bernardino County Flood Control District
- San Bernardino Valley Water Conservation District
- San Luis Obispo County Flood Control and Water Conservation District
- The Metropolitan Water District of Southern California
- United States Army Corps of Engineers
- United States Geological Survey
- United States Weather Bureau
- United States Soil Conservation Service
- United States Public Health Service
- Ventura County Flood Control District



State of California  
The Resources Agency  
DEPARTMENT OF WATER RESOURCES

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#### ABSTRACT

Report contains data on precipitation, runoff, reservoir storage, and water imported to Southern California. Foldout plates show drainage province boundaries, locations of hydrologic areas within the drainage province, and lines of equal seasonal and mean precipitation.

## HYDROLOGIC DATA: 1964, SOUTHERN CALIFORNIA

To meet the ever-increasing urban and agricultural requirements of Southern California demands the orderly development and protection of the area's water resources. These resources must, therefore, be measured and monitored regularly, and the results made public. The objective of the hydrologic data program of the Department of Water Resources is to provide information to meet this need.

### Scope of Report

Hydrologic data are assembled in this bulletin to provide a useful source of information for all interested in development of the water resources of Southern California. Presented are data on precipitation, streamflow, reservoir storage, imported water, ground water, water quality, and artificial recharge of ground water basins.

Approximately 500 precipitation stations were selected as a source of information which would be representative of hydrologic conditions in the southern portion of the State. Preference was given to stations with the longest records. Precipitation data are collected from local agencies and records of the United States Weather Bureau. This report is the only publication of the data by hydrologic area, suitable for expeditious use in water resources analyses. Subsequent bulletins in this series are planned to also include evaporation, wind, temperature, and agroclimatic data with the precipitation data.

The records of daily mean discharge in this report are for stations in the vicinity of the State Water Project that were constructed and maintained by the Department of Water Resources. In addition, records

of seasonal runoff at 18 selected stations are presented to illustrate surface water conditions throughout Southern California. Another source of streamflow records is the United States Geological Survey's annual publication, "Surface Water Records of California."

Data on storage in surface reservoirs and imported water are collected from the various local agencies and compiled to depict water supply reserves.

The major portion of the ground water measurements in Southern California is obtained from local water agencies, with the Department of Water Resources acting as the collector and central compiling agency for these records. This bulletin publishes data for about 7,500 wells, of which only about 400 wells are routinely measured semiannually by the Department. The Department also collects ground water level information during special investigations conducted from time to time in various places throughout Southern California. All these records are published in the Bulletin No. 130 series for the appropriate year.

Water quality data for 52 surface water sampling stations in the Southern District were collected. The stations are a part of the statewide surface water quality data program.

Ground water quality data were collected by the Department and cooperating agencies for wells in the continuing ground water quality data program and from wells sampled for other programs and investigations. This ground water quality monitoring program identifies problems requiring additional study that are caused by saline-water intrusion, improper liquid waste disposal practices, improper well construction and abandonment, or repeated water use and reuse.

### Prior Reports

Since 1930, many bulletins covering various aspects of the hydrology of Southern California have been published by the Department of Water Resources and its predecessor, the Division of Water Resources of the Department of Public Works. These bulletins include data on water use, ground water levels, quality of water, value and cost of water for irrigation, water losses and evaporation data, ground water geology, and evaluation of overdraft on ground water basins in Southern California.

The Bulletin No. 39 series, entitled "Water Supply Conditions in Southern California", was first published in 1932 as a part of the investigation initiated by Chapter 832, Statutes of 1929. Since then, water levels at selected wells have been published annually in Bulletins Nos. 39-A through 39-W, and Bulletins Nos. 39-56 through 39-62. Bulletin No. 39-56, the first of the numbered series, followed Bulletin No. 39-W without interruption in the annual continuity of data.

Bulletins Nos. 65 and 66 for Southern California were commenced for the 1955-56 period, and these reports have continued through the publication of Bulletin No. 65-61, Part II, dated January 1964, and Bulletin No. 66-60, Part II, dated April 1964.

These bulletins have been consolidated into the Bulletin No. 130 series, which enhances the value of these bulletins and considerably reduces the amount of time involved in consolidating hydrologic data by users. Furthermore, the Bulletin No. 130 series is a part of a standardized and coordinated reporting procedure for the State of California, which increases the availability of hydrologic data and provides an annual summary of hydrologic conditions.

In addition, reports on water conditions are prepared by the Department of Water Resources on the first of each month from February through May and again in October as part of the Bulletin No. 120 series. These reports contain forecasts of the runoff for the ensuing April through July snowmelt period. The May 1 report contains a section on ground water conditions as of the date of the report.

#### Organization of Report

Volume V of the Bulletin No. 130 series contains hydrologic data for Southern California. Volume V, Bulletin No. 130-64, is published under five covers. The first book contains the text and Appendixes A ("Climate") and B ("Surface Water Flow").

The second and third books are respectively, Appendix C, "Ground Water Measurements", Parts 1 and 2. Part 1 presents hydrologic data for the Central Coastal and Los Angeles Drainage Provinces. Part 2 presents hydrologic data for the Lahontan, Colorado River Basin, Santa Ana, and San Diego Drainage Provinces.

The fourth book contains Appendix D, "Surface Water Quality", and the fifth book, Appendix E, "Ground Water Quality".

APPENDIX A

CLIMATE





## Introduction

The overall view of climatic conditions in Southern California is presented in Table A-1, which shows the 1963-64 seasonal precipitation and percent of the 50-year mean at selected stations.

Precipitation characteristics at four long-term stations are shown on Figures A-1 through A-4. Values of the cumulative monthly precipitation for a 50-year mean period and for 1963-64 at these four stations are included in Table A-2.

Plate 1, which is bound at the back of this book, contains lines of equal seasonal precipitation during 1963-64 and the 50-year mean precipitation for Southern California.

Seasonal precipitation during 1963-64 at approximately 500 selected stations in Southern California is presented in Table A-3. Stations which were representative of hydrologic areas were selected to give an accurate picture of climatic conditions.

## Measurement Techniques

The Department cooperates with the U. S. Weather Bureau and local agencies in the collection of precipitation data. However, this collection is dependent, for the most part, on the cooperation of local observers, who measure the amount of precipitation that falls during a storm or a known period of time, usually 24 hours. Measurements in the precipitation gage are made with a calibrated ruler or read from a recorder chart and are generally accurate to  $\pm 0.01$  inch.

For this report, these daily measurements were totaled from July 1963 to June 1964 and are presented in tables of seasonal precipitation in this appendix.

### Coding

To facilitate processing of precipitation data, codes using numerals and letters designate hydrologic areas, agencies, and specific data. These codes are described in the following paragraphs.

#### Hydrologic Area Coding System

To provide uniform boundaries that are significant both geologically and hydrologically, the Department of Water Resources has developed an areal designation system. It relates areas that are interconnected hydrologically so the filing, separation, and recovery of data can be handled by machine. A further advantage of this coding system is that it can be used throughout the State. This system, as developed for Southern California, is described in an office report entitled "Names and Areal Code Numbers of Hydrologic Areas in the Southern District", dated April 1964.

The areal designation system for the Southern District covers a series of major drainage provinces which are further subdivided into hydrologic units, hydrologic subunits, and hydrologic subareas. Plates 2 through 7 show the locations and areal code numbers of the hydrologic subdivisions in each drainage province.

#### Precipitation Station Numbering System

In addition to the coding procedure to define areas of hydrologic significance, it is necessary to identify each item of hydrologic information with the particular numbering system in order to provide for filing and analysis. Precipitation stations are identified by latitude and longitude supplemented by the name of the station.

Agency Code

The agency code used in this report for precipitation data consists of four numerals for indicating the agency supplying the data.

The agency codes and names used are given below:

<u>Agency Code</u>	<u>Agency Name</u>
1101	Los Angeles County Flood Control District
1200	Los Angeles City Department of Water and Power
2100	Ventura County Flood Control District
3200	San Bernardino City Water Department
4002	U. S. Army Corps of Engineers, Los Angeles
4004	U. S. Weather Bureau
4103	Riverside County Flood Control and Water Conservation District
4111	San Luis Obispo County Farm Agent
4701	Corona Foothill Mutual Lemon Company
4706	Fontana Union Water Company
4730	Crafton Orange Growers Association
4731	Garrett and Company
4732	Gold Buckle Association
4740	Southern California Edison Company
5100	San Bernardino County Flood Control District
5102	Orange County Flood Control District
5717	Temescal Water Company



DATA

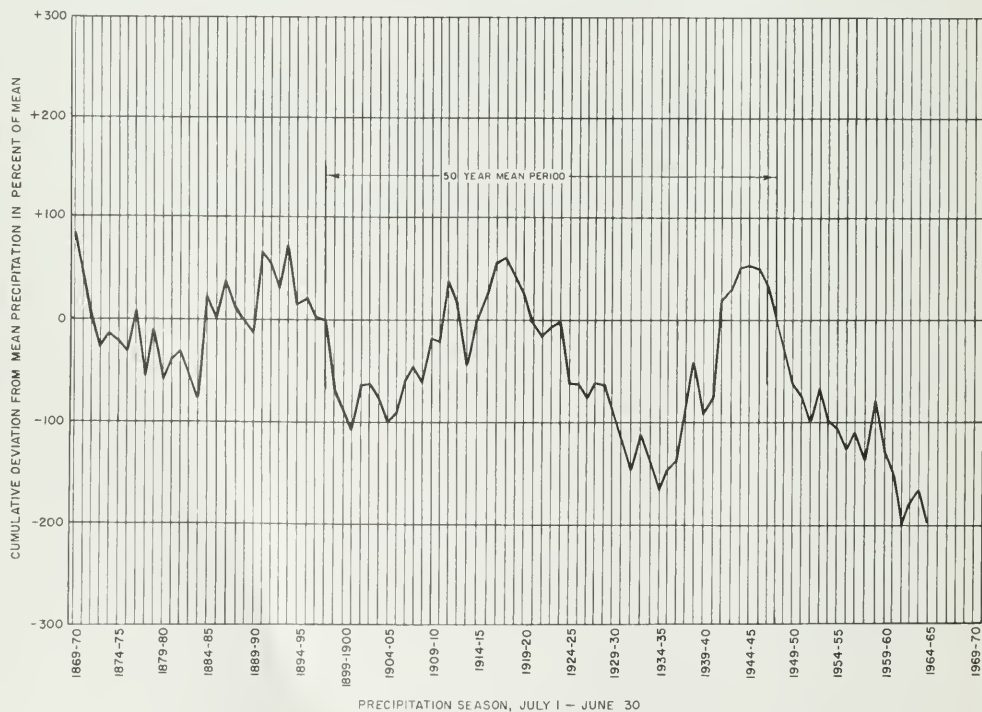
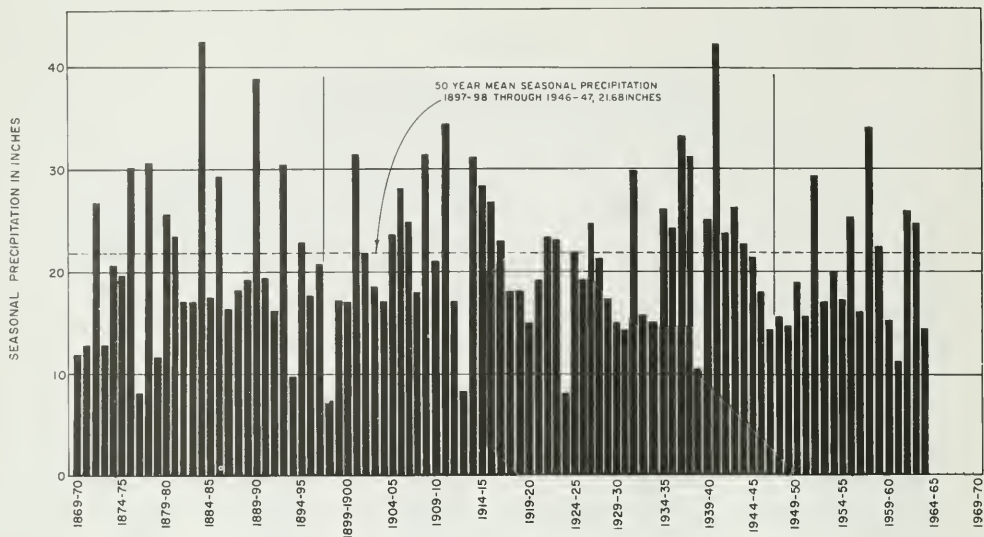
CLIMATE



TABLE A-1

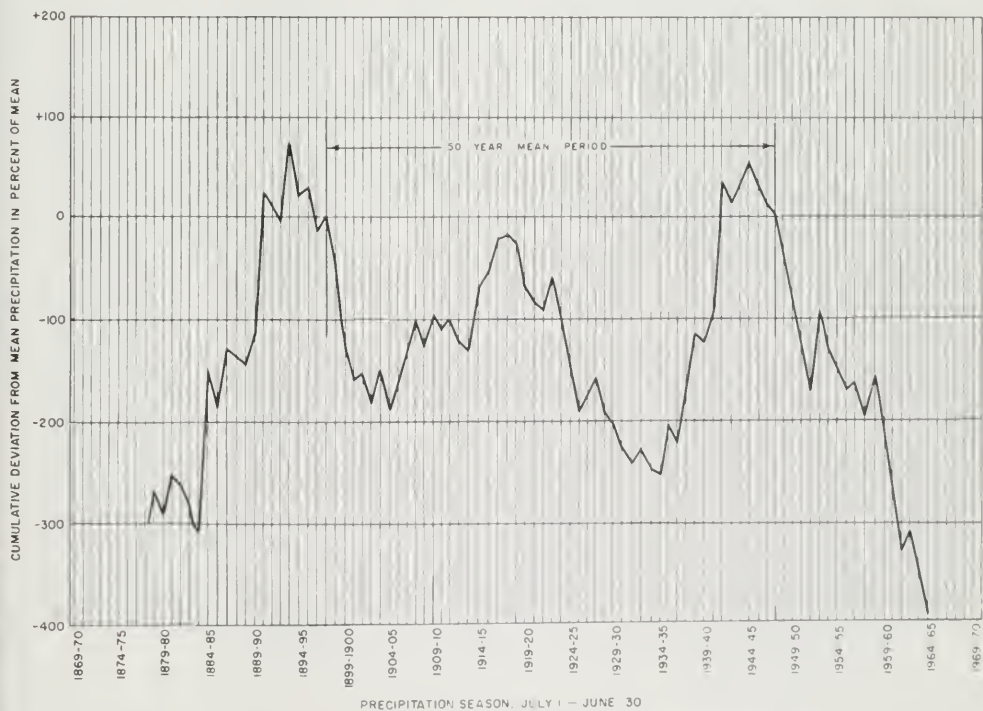
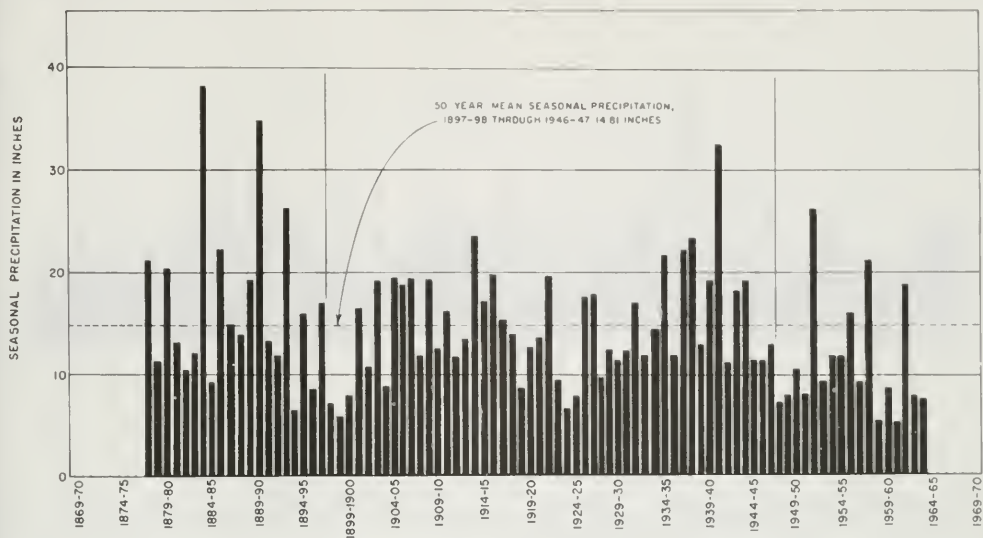
SEASONAL AND MEAN PRECIPITATION AT  
SELECTED STATIONS IN SOUTHERN CALIFORNIA

Station	County	50-year mean: 1897-1947, in inches	1963-64 season	
			In inches	In percent of mean
<u>Coastal</u>				
Paso Robles	San Luis Obispo	15.82	10.27	65
San Luis Obispo	San Luis Obispo	21.68	14.69	68
Santa Maria	Santa Barbara	13.52	7.68	57
Santa Barbara	Santa Barbara	18.56	10.19	55
Ventura	Ventura	15.59	9.54	61
Los Angeles	Los Angeles	14.81	7.93	54
Pomona	Los Angeles	18.21	12.99	71
Santa Ana	Orange	14.16	9.71	69
San Bernardino	San Bernardino	17.21	14.49	84
Oceanside	San Diego	12.38	9.29	75
San Diego	San Diego	10.36	7.05	68
<u>Interior</u>				
Bishop	Inyo	6.14	3.07	50
Barstow	San Bernardino	4.17	3.54	85
Blythe	Riverside	4.03	5.88	146
Brawley	Imperial	2.40	2.53	105

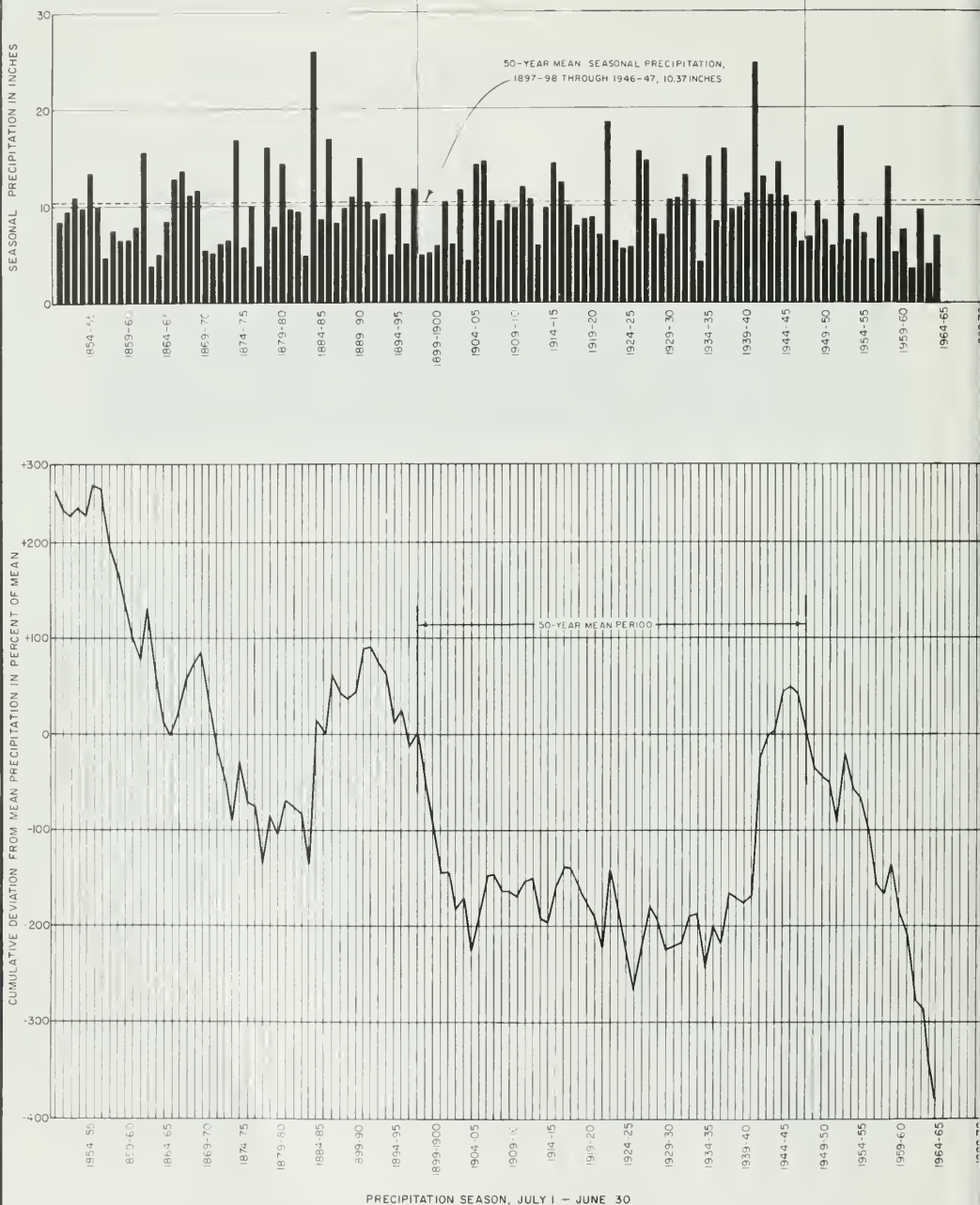


# REPRESENTATIVE PRECIPITATION CHARACTERISTICS FOR SAN LUIS OBISPO

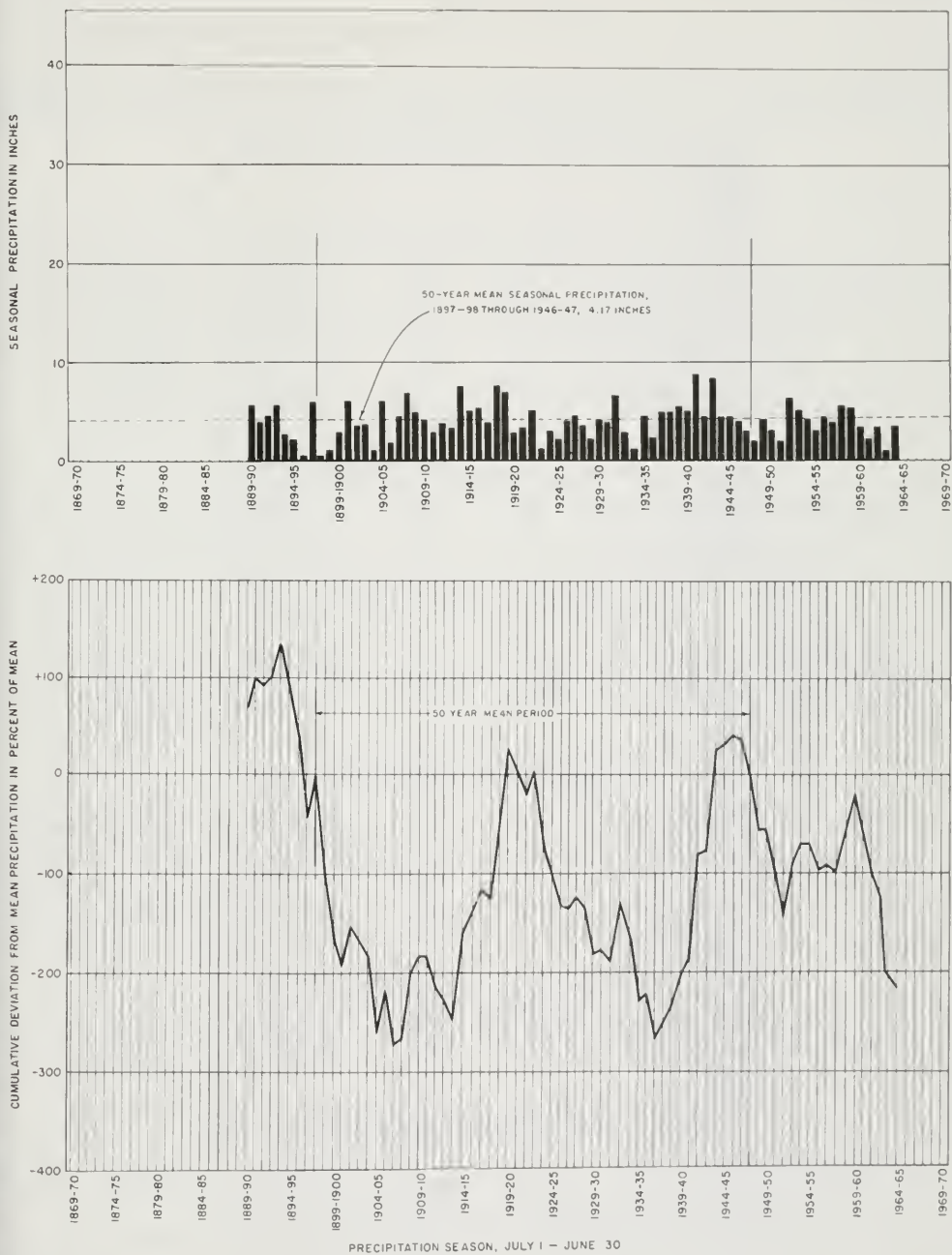




## REPRESENTATIVE PRECIPITATION CHARACTERISTICS FOR LOS ANGELES



# REPRESENTATIVE PRECIPITATION CHARACTERISTICS FOR SAN DIEGO



# REPRESENTATIVE PRECIPITATION CHARACTERISTICS FOR BARSTOW

TABLE A-2  
CUMULATIVE MONTHLY PRECIPITATION  
AT SAN LUIS OBISPO, LOS ANGELES,  
SAN DIEGO AND BARSTOW

Month	Cumulative monthly precipi- tation at San Luis Obispo				Cumulative monthly precipi- tation at Los Angeles				Cumulative monthly precipi- tation at San Diego				Cumulative monthly precipi- tation at Barstow			
	50-year mean :1897-1947, in inches :	1963-64 Season in inches :	In percent of mean :	in inches :	50-year mean :1897-1947, in inches :	1963-64 Season in inches :	In percent of mean :	in inches :	50-year mean :1897-1947, in inches :	1963-64 Season in inches :	In percent of mean :	in inches :	50-year mean :1897-1947, in inches :	1963-64 Season in inches :	In percent of mean :	in inches :
July	0.01	0	0	0.01	0	0	0	0.03	0	0	0	0.15	0	0	0	0
August	0.05	0	0	0.03	0.02	67	0.09	0	0	0	0	0.41	0.32	78		
September	0.28	0.19	68	0.31	1.33	429	0.23	1.90	826	0.58	1.90	328				
October	1.09	2.13	195	0.90	1.90	211	0.79	2.03	257	0.87	2.71	311				
November	2.76	6.22	225	1.96	4.05	207	1.61	3.88	241	1.16	3.19	275				
December	6.56	6.37	97	4.46	4.05	91	3.59	3.98	111	1.75	3.19	182				
January	11.50	9.38	82	7.41	5.48	75	5.51	5.28	96	2.41	3.19	132				
February	16.02	9.50	59	10.78	5.48	51	7.57	5.65	74	3.04	3.19	105				
March	19.62	11.60	59	13.45	7.27	54	9.32	6.62	71	3.72	3.32	89				
April	20.96	13.29	63	14.40	7.60	53	10.05	6.82	68	3.98	3.39	85				
May	21.54	14.32	66	14.74	7.61	52	10.32	6.97	68	4.08	3.54	87				
June	21.68	14.69	68	14.81	7.93	54	10.36	7.05	68	4.17	3.54	85				

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
CENTRAL COASTAL DRAINAGE PROVINCE (T)						
<u>T-09 Salinas Hydro Unit</u>						
T-09.H	35-19-42	120-29-19	1,350	13.08	4004	Salinas Dam
	35-22-27	120-38-07	1,153	19.99	4004	Santa Margarita Booster
	35-21-59	120-38-16	1,250	19.97	4004	Santa Margarita 2SW
	35-32-06	120-36-41	1,150	7.82	4111	Runitz Ranch
	35-32-56	120-42-21	800	11.27	4111	Templeton
	35-37-40	120-41-03	700	10.27	4004	Paso Robles
	35-40-42	120-38-14	803	8.33	4004	Paso Robles Airport
<u>T-10 San Luis Obispo Hydro Unit</u>						
T-10.B	35-17-51	120-39-45	300	14.69	4004	San Luis Obispo Poly
	35-20-16	120-41-17	625	14.99	4004	Camp San Luis Obispo
<u>T-11 Carrizo Plain Hydro Unit</u>						
T-11.O	34-14-47	119-55-01	1,975	6.41	4111	Soda Lake (Werling)
	35-21-14	119-59-06	2,050	4.85	4111	Carissa Plain (Beck)
	35-23-42	120-05-41	2,040	7.02	4111	Carissa Plain (Cooper)
<u>T-12 Santa Maria-Cuyama Hydro Unit</u>						
T-12.A	34-54-13	120-26-56	238	7.68	4004	Santa Maria Airport
T-12.B	34-54-36	120-11-08	3,248	15.63	4002	Tepusquet Peak
T-12.C	34-56-18	119-37-27	2,240	4.96	4004	Cuyama
<u>T-13 San Antonio Hydro Unit</u>						
T-13.O	34-44-38	120-16-53	565	10.57	4004	Los Alamos
	34-45-47	120-25-30	320	10.24	4004	Harris Gaging Station
<u>T-14 Santa Ynez Hydro Unit</u>						
T-14.A	34-39-42	120-28-32	72	9.77	4004	Lompoc Sewage Plant
	34-35-20	120-29-40	1,000	15.82	4002	San Miguelito Cn.
T-14.C	34-32-00	120-10-30	680	15.01	4002	Nojaqui Park
T-14.D	34-35-06	119-59-12	781	12.42	4004	Cachuma Dam

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>T-14 Santa Ynez Hydro Unit (continued)</u>						
T-14.E	34-28-57	119-30-32	2,060	18.54	4004	Juncal Dam
	34-31-25	119-41-17	1,250	16.27	4004	Gibraltar Dam No. 2
	34-31-32	119-57-26	4,000	19.86	4004	Santa Barbara TV Peak
<u>T-15 Santa Barbara Hydro Unit</u>						
T-15.A	34-26-57	120-28-15	110	11.51	4002	Point Conception
T-15.C	34-25-47	119-50-36	9	9.40	4004	Santa Barbara Airport
	34-25-48	119-42-05	100	10.19	4004	Santa Barbara
	34-27-54	119-42-30	1,000	16.99	2100	Doulton Tunnel



TABLE A-3

## PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
LOS ANGELES DRAINAGE PROVINCE (U)						
<u>U-02 Ventura River Hydro Unit</u>						
02.A	34-16-47	119-17-28	50	9.54	4004	Ventura-Star Free Press
	34-20-35	119-17-43	215	10.37	2100	Kingston Reservoir
	34-22-25	119-13-42	800	12.03	2100	Canada Larga-Barrett Rn.
02.B	34-22-06	119-20-12	400	14.94	2100	Casitas Rn.
	34-23-42	119-18-03	505	13.60	2100	Oakview F. S.
	34-25-32	119-21-22	750	14.00	2100	Selby Rn. No. 1
	34-25-51	119-18-53	650	13.50	2100	Rancho Matilija
	34-28-55	119-17-30	875	15.44	4004	Wheeler Springs 2SSW
02.C	34-24-44	119-10-08	2,570	15.83	2100	Meher Mt.-Sulpher Mt. Rd.
	34-26-08	119-08-02	1,560	15.00	2100	Ventura Co. Fire Sta.-Ojai
	34-26-09	119-11-36	1,250	14.81	2100	Dennison Rn.
	34-26-52	119-14-33	750	13.59	4004	Ojai
	34-27-58	119-10-49	1,360	14.51	2100	Thacher School
<u>U-03 Santa Clara-Calleguas Hydro Unit</u>						
03.A	34-08-42	119-12-30	10	7.30	2100	Port Hueneme
	34-09-26	119-04-39	20	6.58	2100	Davis Rn.
	34-11-26	119-10-27	49	9.01	4004	Oxnard
	34-12-17	119-04-04	60	7.44	2100	American Crystal Sugar
	34-16-40	119-12-10	300	10.76	2100	Saticoy-Del Mar
	34-16-47	119-15-27	200	9.71	2100	Borgstrom
03.B	34-17-05	119-08-38	170	12.39	2100	Saticoy-Culbertson
	34-19-55	119-07-25	335	10.56	2100	Limoneira Rn.
	34-21-16	119-03-50	265	12.10	4004	Santa Paula-Ventura Co. F.D.
	34-21-23	119-04-25	275	11.84	2100	Blanchard Inv. Co.
	34-24-44	119-10-08	2,570	15.83	2100	Meher Mt.-Sulpher Mt. Rd.
	34-26-08	119-08-02	1,560	15.00	2100	Ventura Co. Fire Sta.-Ojai
03.C	34-21-54	118-56-42	400	11.98	2100	Bardsdale-Young Rn.
	34-22-27	119-00-50	400	10.47	2100	Pine Tree Rn.
	34-23-03	118-57-41	430	11.59	2100	Rancho Sespe
	34-23-54	118-55-06	450	12.28	2100	Fillmore Citrus Assn.
	34-24-10	118-55-34	435	12.04	4004	Fillmore IWNW
	34-35-50	119-19-30	4,150	16.35	4004	Wheeler Springs 7N
03.D	34-23-42	118-51-06	600	10.03	2100	Double H-N Rn.
	34-24-08	118-44-10	675	10.54	2100	Newhall Rn.
	34-24-22	118-45-22	730	9.44	2100	Camulos Rn. Qtrs.
	34-24-39	118-47-37	700	10.40	2100	Piru Citrus Assn.
	34-44-37	118-42-43	4,025	13.44	4004	Sandbergs Quail Lake P.S.
	34-47-18	118-49-54	3,650	13.44	1101	Gorman

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>U-03 Santa Clara-Calleguas Hydro Unit (continued)</u>						
U-03.E	34-21-24	118-39-42	2,850	9.64	1101	Santa Susanna Mt.-Salt Cn.
	34-22-46	118-09-03	5,600	18.67	1101	Little Gleason
	34-23-07	118-31-54	1,243	9.34	4004	Newhall-Soledad Div. Hdqtr.
	34-23-27	118-04-50	4,950	12.06	1101	Tujunga-Mill Cr. Sum.
	34-23-45	118-17-12	4,450	13.42	1101	Magic Mtn.
	34-25-21	118-34-26	1,096	6.24	1101	Saugus-Edison Substation
	34-26-04	118-26-06	1,625	7.99	1101	Mint Cn.-Dyer
	34-26-36	118-04-00	4,500	9.98	1101	Santiago Cn.
	34-27-02	118-11-52	2,550	7.52	1101	Action-Camp No. 2
	34-27-51	118-09-25	2,900	6.51	1101	Action-Aliso Cn.-Blum Rn.
	34-28-55	118-31-32	1,511	8.26	1101	Dry Canyon Res.
	34-29-17	118-08-29	3,135	5.78	4004	Vincent P. S.
	34-29-31	118-16-30	2,920	7.01	4004	Action-Escondido Cn.
	34-30-47	118-21-31	2,350	8.57	1101	Mint Cn.--The Oaks
	34-30-50	118-14-10	3,250	10.24	1101	Action-Hubbard
	34-32-02	118-31-27	1,580	10.87	1101	San Francisquito Cn. P.H. 2
	34-35-14	118-21-45	3,050	12.60	4004	Bouquet Cn.
	34-35-20	118-27-10	2,100	12.69	4004	Saugus P. P.
	34-36-28	118-33-40	2,075	16.33	4004	Elizabeth Lake Cn.
	34-40-27	118-25-49	3,275	13.93	4004	Pine Cn. P. S.
U-03.F	34-10-43	118-50-59	810	9.39	4004	Thousand Oaks-Conejo F. S.
	34-11-46	118-56-05	850	8.25	2100	Newbury Park Acedemy
	34-14-10	118-56-01	275	9.68	2100	Santa Rosa Valley-Janss Rn.
	34-14-52	118-50-26	680	9.59	2100	Everett Rn.
	34-15-44	118-39-32	1,075	10.38	4004	Susanna Knolls
	34-15-47	118-59-46	300	8.40	2100	Somis-Snyder Rn.
	34-16-08	119-02-04	375	10.43	2100	Somis-Aggen Rn.
	34-16-42	118-52-34	520	9.32	4004	Moorpark LSSE
	34-17-45	118-52-34	720	10.61	2100	Ven. Co. W. W. Dist. 1
	34-17-53	118-43-16	1,080	7.15	2100	Tapo (Mutual Valley) W. C.
	34-18-58	118-53-36	851	10.77	2100	Kerr Bros.
<u>U-04 Malibu Hydro Unit</u>						
U-04.A	34-05-03	118-35-57	747	14.68	4004	Topanga Cn. R. S.
U-04.B	34-04-41	118-41-35	600	13.76	1101	Monte Nido Cn.
	34-06-20	118-47-30	975	13.03	1101	Seminole Hot Springs
	34-09-00	118-53-59	1,040	11.95	1101	Lake Sherwood Estates
U-04.C	34-01-10	118-47-46	115	9.28	1101	Zuma Cn. P. S.
U-04.D	34-04-38	118-52-47	1,530	12.58	4004	Lachuza P. S.
<u>U-05 L. A.-San Gabriel River Hydro Unit</u>						
U-05.A	33-43-15	118-16-17	85	8.01	4004	San Pedro
	33-44-33	118-24-31	150	5.20	1101	Pt. Vicente L. H.



TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
U-05 L. A.-San Gabriel River Hydro Unit (continued)						
U-05.A	33-46-06	118-11-28	150	7.74	1101	Long Beach Los Alamitos Id.
	33-46-10	118-11-37	68	7.93	1101	Long Beach Vets Memorial
	33-46-30	118-22-58	1,240	8.02	1101	San Pedro Hills
	33-46-46	118-08-36	15	7.75	1101	Long Beach 10th-Roswell
	33-47-16	118-12-08	11	7.35	1101	Long Beach-City Automatic
	33-47-27	118-15-30	40	8.03	1101	Wilmington-City Engr.
	33-47-31	118-10-13	40	6.09	1101	Long Beach-Hamilton Bowl
	33-47-49	118-10-03	140	7.65	4004	Signal Hill-City Hall
	33-47-58	118-23-29	216	5.69*	4004	Palos Verdes Estates
	33-48-38	118-04-38	23	7.44	1101	Los Alamitos
	33-49-52	118-19-41	85	6.96	4004	Torrance
	33-50-00	118-10-12	80	8.05*	1101	Long Beach-Keever Ave.
	33-50-23	118-23-22	90	6.18	1101	Redondo Beach
	33-50-35	118-07-09	47	6.83	1101	Lakewood-Montana Rn.
	33-51-48	118-04-58	52	7.92	1101	Artesia-Barr Lumber Co.
	33-52-07	118-19-55	65	7.55	1101	La Fresa Substation
	33-52-20	118-11-55	55	8.13	1101	Long Beach-Neece St.
	33-52-44	118-07-31	68	8.39	1101	Bellflower-McClurg
	33-53-00	118-23-19	182	6.98	1101	Manhattan Beach
	33-53-13	118-00-56	86	7.49	1101	La Mirada-Standard Oil
	33-53-30	118-09-36	70	8.27	1101	Paramount F. S.
	33-53-42	118-13-34	68	8.36	1101	Compton F. S.
	33-53-52	118-04-00	85	8.38	1101	Norwalk C. of C.
	33-54-57	118-25-50	150	7.44	1101	El Segundo-Standard Oil
	33-55-18	118-09-44	90	7.65	1101	Rancho Los Amigos
	33-56-18	118-08-03	130	8.17	4004	Downey F. D.
	33-56-56	118-15-17	121	8.29	1101	L. A.-96th-Central
	33-57-12	117-59-56	301	8.54	1101	East Whittier
	33-57-54	118-21-15	155	7.63	1101	Inglewood F. S.
	33-58-27	118-01-57	340	9.39	4004	Whittier City Hall
	33-58-33	118-12-25	147	8.27	1101	Huntington Park City Yard
	33-58-37	118-08-48	140	8.58	1101	Laguna Bell-S.C.E. Co.
	33-59-21	118-27-15	55	8.89	1101	Venice F. S.
	34-00-43	118-29-27	94	10.03	4004	Santa Monica
	34-01-00	118-23-17	75	8.59	4004	Culver City
	34-02-00	118-18-46	203	8.58	1101	Clark Mem. Library
	34-02-42	118-27-08	232	9.13	1101	Sawtelle-West L. A.
	34-03-08	118-14-46	385	8.61	1101	L. A. W. D.-2nd-Hill
	34-03-09	118-14-13	300	8.57	1101	L. A. W. D.-Ducommun St.
	34-03-19	118-14-26	548	7.93	4004	L. A. City
	34-03-19	118-27-22	355	8.69	1101	Sawtelle-Soldiers Home
	34-03-34	118-33-25	700	9.71	1101	San Ynez Cn.-Paseo Miramar
	34-03-50	118-21-29	175	8.84	1101	Hancock Park
	34-04-27	118-23-57	290	9.67	1101	Bev. Hills City Hall
	34-05-10	118-28-57	1,025	12.52	1101	Mt. St. Marys College
	34-05-11	118-26-45	540	10.50	4004	Stone Cn.-Bell Air Hotel
	34-05-19	118-17-34	335	9.01	1101	L. A. City College

\*Partially estimated.

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PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
U-05 L. A.-San Gabriel River Hydro Unit (continued)						
U-05.A	34-06-21	118-27-13	865	12.38	1101	Stone Cn. Res.
	34-07-04	118-19-55	750	9.83	1101	Hollywood Dam
	34-07-06	118-10-39	620	9.94	1101	Highland Park-Lindsay
	34-07-14	118-24-38	867	11.17	1101	Upper Franklin Res.
	34-07-38	118-30-03	1,625	10.67*	1101	Mandeville Cn.-Fire Rd.
U-05.B	34-06-08	118-15-54	455	8.97	1101	Silver Lake Res.
	34-07-18	118-17-04	850	10.34	1101	Griffith Park Nursery
	34-07-32	118-16-58	900	9.53*	1101	Griffith Park Little Cn.
	34-07-45	118-24-20	1,100	11.06*	1101	Franklin Cn. Mulholland F.S.
	34-07-51	118-29-26	1,425	10.76*	1101	Sepulveda Cn.-F.S. #2
	34-07-52	118-28-42	1,325	9.78*	1101	Mulholland-Kirkman
	34-08-02	118-17-18	650	10.10*	1101	Griffith Park Zoo
	34-09-00	118-14-27	603	10.70	1101	Glendale-McIntyre
	34-09-02	118-10-57	950	8.17	1101	Eagle Rock Substation
	34-09-07	118-15-40	530	10.89	4004	Glendale-Stapenhorst
	34-09-21	118-18-20	470	11.27	1101	L. A. Headworks Plant
	34-09-23	118-21-56	593	9.70	1101	No. Hollywood-Blix
	34-09-24	118-38-14	924	11.63	1101	Calabasas-Farmer No. 2
	34-09-54	118-15-05	615	11.44	1101	Glendale-Jones N. 1
	34-10-02	118-28-06	680	9.12	4004	Sepulveda Dam
	34-10-	118-35-56	891	9.88*	1101	Girard-Brant Rn.
	34-10-55	118-08-15	1,125	13.79	4004	Altadena
	34-10-55	118-18-24	635	9.86	4004	Burbank Fire Dept.
	34-11-39	118-23-17	717	8.77	1101	Lankershim P.P.
	34-12-18	118-17-05	1,610	9.70	1101	Sunset Dam
	34-13-15	118-13-45	1,600	16.96	1101	Pickens Debris Basin
	34-13-28	118-14-24	1,565	16.94*	4004	La Crescenta FC 251
	34-13-34	118-36-58	865	8.90	1101	Chatsworth Res.
	34-13-52	118-28-04	828	9.68*	1101	Lindomar Nursery
	34-14-20	118-13-28	2,225	18.20	1101	Briggs Terrace
	34-15-21	118-24-24	955	10.06	1101	Pacoima-Warehouse
	34-15-23	118-36-19	957	10.63	4004	Chatsworth-IACFCD No. 24D
	34-15-43	118-23-50	1,110	10.43	1101	Hansen Dam
	34-15-50	118-16-13	2,450	14.27	4004	Haines Cn.-Lower
	34-16-18	118-15-07	3,450	16.06	4004	Haines Cn.-Upper
	34-16-40	118-28-06	977	11.88	4004	San Fernando
	34-16-58	118-30-46	1,150	12.13*	1101	Granada Pump Plant
	34-17-18	118-28-54	1,150	12.69	1101	Van Norman Lake
	34-17-31	118-11-15	2,315	17.42	4004	Big Tujunga Dam
	34-18-02	118-06-39	3,675	18.33	4004	Colbys FC 53D
	34-18-40	118-28-20	1,250	12.25*	1101	Sylmar Packing Corp.
	34-19-48	118-23-59	1,500	13.73	4004	Pacoima Dam FC 33AE
	34-20-18	118-36-44	3,340	13.08	1101	Sa. Susanna Mt.-Devils Cn.
	34-21-18	118-27-02	3,175	17.88	1101	Wilson Cn.
	34-22-44	118-01-53	6,925	14.38	1101	Pacific Min.
	34-22-46	118-09-03	5,600	18.67*	1101	Little Gleason
	34-23-27	118-04-50	4,950	12.06*	1101	Tujunga-Mill Cr. Summit

\*Partially estimated.

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP. IN INCHES	AGENCY	STATION NAME
U-5 L. A.--San Gabriel River Hydro Unit (continued)						
U-05.C	34-07-41	118-06-40	670	11.10	1101	San Marino-Huntgtn Library
	34-08-14	118-07-25	795	12.75	1101	Pasadena-Cal Tech.
	34-08-54	118-08-36	864	12.02	4004	Pasadena
	34-09-27	118-02-36	665	15.09	1101	Sierra Madre-Pegler
	34-09-31	118-02-01	611	15.21	1101	Arcadia P.P. No. 1
	34-09-47	118-02-21	700	15.79	1101	Sierra Madre P.P.
	34-10-11	118-02-51	985	18.82	1101	Sierra Madre-Mira Monte
	34-10-25	118-03-38	1,180	16.95	1101	Bailey Debris Dam
	34-10-34	118-02-32	1,100	18.59	1101	Sierra Madre Dam
	34-10-48	118-07-01	1,186	13.49	1101	Altadena Golf Course
	34-10-57	118-11-47	1,345	12.50	1101	Flintridge F. S.
	34-11-03	118-01-09	1,400	18.26	1101	Santa Anita Dam No. 2
	34-11-36	118-05-18	2,550	17.50	1101	Henninger Flats
	34-11-52	118-11-05	1,155	13.20	1101	Arroyo Seco Patrol
	34-12-10	118-12-40	1,300	14.35	1101	Descanso Gardens
	34-12-12	118-11-40	1,270	13.91*	1101	La Canada-Roberts
	34-12-27	118-10-00	1,181	13.72	1101	Arroyo Seco-Chlorine Plant
	34-12-30	118-02-00	2,650	25.28	4004	Hoeges FC 60A
	34-12-33	118-10-12	1,220	14.27	4004	Arroyo Seco R. S.
	34-13-37	118-06-33	4,500	23.15	1101	Mt. Lowe
	34-13-40	118-12-42	2,020	16.31	1101	Alta Canyada-Carpenter
	34-14-40	118-10-50	1,800	14.77	1101	Oak Wilde-Phillips
U-05.D	33-59-40	117-59-37	860	12.57	1101	Puente Hills
	34-00-12	117-52-14	488	10.85	4004	Walnut P. S.
	34-00-12	117-56-19	380	11.78*	1101	Puente-Bixby Rn.
	34-00-13	117-51-09	533	11.17	1101	Walnut Fruit Grower Assoc.
	34-02-35	118-04-50	285	9.96*	1101	Potrero Heights
	34-03-52	117-57-04	358	10.40*	1101	West Covina-Hurst Rn.
	34-04-57	117-52-28	575	12.61*	4004	Covina-Temple F.C. 193
	34-05-36	117-57-40	386	11.63	1101	Baldwin Park Exper. Sta.
	34-06-05	118-07-52	533	11.57	1101	Alhambra
	34-06-11	118-05-56	450	12.06	4004	San Gabriel F.D.
	34-06-18	118-06-32	472	11.94*	1101	San Gabriel-Bruington 2
	34-06-26	117-48-19	960	12.88	4004	San Dimas F.C. 95
	34-06-58	118-09-05	660	11.16	1101	So. Pasadena-City Hall
	34-07-39	117-47-42	1,110	14.47	1101	San Dimas-Stevens
	34-07-57	117-53-32	615	14.28	1101	Azusa-Foothill Rn.
	34-08-03	117-54-17	612	13.98	4004	Azusa City Park
	34-08-22	117-51-54	782	14.15	1101	Glendora-M.C. Irrig. Co.
	34-08-23	117-51-33	822	14.81	4004	Glendora-West F.C. 185
	34-08-50	117-52-01	835	15.59	1101	Glendora-Brown
	34-08-57	118-00-04	560	12.94	1101	Monrovia News-Post
	34-09-05	117-46-28	1,350	16.88	1101	San Dimas Dam
	34-09-20	117-54-28	750	16.28	4004	San Gabriel Cn. P. H.
	34-09-22	117-50-57	1,165	17.04	1101	Glendora-Englehart

\*Partially estimated.

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PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
U-05 L. A.-San Gabriel River Hydro Unit (continued)						
U-05.D	34-09-46	117-54-15	770	16.41	1101	Rogers Cn.
	34-09-58	117-59-37	962	17.20	1101	Monrovia-5 Points
	34-10-04	117-46-02	1,435	17.62	1101	San Dimas R. S.
	34-10-06	117-48-36	1,575	18.58	4004	Big Dalton Dam
	34-10-34	117-59-14	1,378	18.55	1101	Sawpit Dam No. 2
	34-10-53	117-52-43	1,210	17.43	1101	Morris Dam No. 2
	34-11-38	117-57-52	2,725	21.88	1101	Sawpit Cn.-Deer Park
	34-11-48	117-41-45	5,200	24.59	1101	San Dimas Cn.-Fern Cn.
	34-12-19	117-51-40	1,481	19.01	4004	San Gabriel Dam
	34-12-20	117-45-40	2,750	18.60	1101	Tanbark Flats
	34-13-27	118-03-32	5,650	23.96	1101	Mt. Wilson Observatory
	34-13-33	117-50-48	1,500	18.83	1101	San Gabriel Dam 1 Camp
	34-13-36	118-03-57	5,709	19.96	4004	Mt. Wilson F.C. 333B
	34-13-51	118-02-19	3,325	24.82	1101	Sturtevant Camp
	34-14-10	117-48-18	1,600	17.86*	1101	San Gab. Cn.-E. Fork 2
	34-14-20	117-51-36	1,530	17.75*	1101	Camp Rincon-Mason
	34-17-04	117-51-58	4,025	22.60	1101	Bear Cn.-San Gab. W. Fork
	34-18-58	117-50-30	5,370	25.39	4004	Crystal Lake F. C. 283C
	34-20-23	117-56-21	7,925	20.67	1101	Waterman Mtn.
	34-21-18	117-52-32	6,665	23.33	1101	Cedar Springs-Prison Camp
	34-22-26	117-45-05	6,600	28.03	1101	Vincent Gulch
U-05.E	34-03-17	117-45-02	880	12.36*	1101	Pomona F. S.
	34-03-58	117-46-21	855	12.99	4004	Pomona
	34-05-30	117-48-22	1,030	11.88	1101	Puddingstone Dam
	34-06-03	117-46-12	1,050	13.37	1101	La Verne Police Dept.
	34-07-22	117-43-11	1,403	14.16	1101	Claremont-Indian Hills
	34-08-54	117-41-52	1,810	16.87	1101	Padua Hills P. S.
U-05.F	33-48-38	118-04-38	23	7.44	1101	Los Alamitos
	33-51-33	117-53-06	190	8.20	5102	Placentia-A. U. Water Co.
	33-51-57	117-59-50	75	7.98	1101	Buena Park
	33-52-15	117-54-24	195	10.22	5102	Fullerton-Knowlton
	33-52-42	117-52-24	225	9.21	5102	Placentia Mutual Orange
	33-53-17	117-49-03	395	11.17	4004	Yorba Linda
	33-53-25	117-55-31	275	9.40	4004	Brea Dam
	33-55-58	117-56-38	315	9.01	5102	La Habra F. S.
	33-57-08	117-55-26	645	10.70	1101	Puente Hills-Wessel Rn.
	33-58-41	117-49-58	748	10.87	1101	Diamond Bar Rn.

\*Partially estimated.

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
LAHONTAN DRAINAGE PROVINCE (W)						
<u>W-01 Mono Hydro Unit</u>						
W-01.0	37-45-07	119-08-36	9,120	16.01	1200	Gem Lake
	37-53-32	119-05-45	6,980	8.46	1200	Cain Rn.
	37-56-10	119-13-56	9,500	18.86	1200	Ellery Lake
<u>W-03 Owens Hydro Unit</u>						
W-03.B	37-03-10	118-13-40	3,850	3.33	1200	Tinemaha Res.
	37-07-31	118-25-58	8,200	9.15	1200	Big Pine Cr.-Glacier Lodge
	37-08-31	118-19-22	4,670	3.46	1200	Big Pine P. P. No. 3
	37-10-32	118-33-37	9,600	13.15	4004	South Lake
	37-12-48	118-36-48	9,140	11.35	1200	Lake Sabrina
	37-22-17	118-21-56	4,108	3.07	4004	Bishop W. B. Airport
	37-28-12	118-43-24	9,360	12.85	1200	Rock Cr. Store
	37-35-15	118-42-16	6,790	5.80	1200	Long Valley Res.
W-03.C	36-08-18	117-57-20	3,825	5.02	4004	Haiwee
	36-25-09	118-02-15	3,710	2.69	1200	Cottonwood Gates
	36-36-01	118-03-38	3,720	3.04	1200	Lone Pine
	36-40-15	118-05-40	3,725	2.69	1200	L.A.A.-Alabama Hills
	36-48-05	118-12-08	3,950	2.96	4004	Independence
	36-58-31	118-12-31	3,825	2.68	1200	L.A.A.-Intake
	37-03-10	118-13-40	3,850	3.33	1200	Tinemaha Res.
<u>W-05 Deep Springs Hydro Unit</u>						
W-05.0	37-22-15	117-59-03	5,225	2.55	4004	Deep Springs College
<u>W-21 Searles Hydro Unit</u>						
W-21.A	35-45-42	117-22-27	1,695	4.66	4004	Trona
<u>W-24 Indian Wells Hydro Unit</u>						
W-24.A	35-57-07	117-55-31	3,510	5.95	1200	Little Lake
W-24.B	35-35-40	117-55-04	3,310	4.23	1200	L.A.A.-Freeman Sta.



TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>W-26 Antelope Hydro Unit</u>						
W-26.A	34-20-23	117-56-21	7,925	20.67	1101	Waterman Mtn.
	34-20-50	117-49-57	7,590	35.35	1101	Little Jimmy Springs
	34-22-26	117-45-05	6,600	28.03	1101	Vincent Gulch
	34-22-44	118-01-53	6,925	14.38	1101	Pacific Mtn.
	34-22-45	117-41-20	6,860	20.42	4004	Big Pines Park
	34-22-53	117-41-05	7,500	15.75	4004	Table Mtn.
	34-23-53	117-43-40	6,150	16.14*	1101	Jackson Lake-Big Pines
	34-25-02	117-58-17	3,925	10.01	1101	Little Rock-Sycamore Camp
	34-26-36	118-04-00	4,500	9.98	1101	Santiago Cn.
	34-26-44	117-51-02	3,715	7.34	4004	Valyermo R. S.
	34-27-35	117-55-58	3,996	8.42*	1101	Pleasant View Mesa-Neal
	34-28-05	117-44-51	3,810	6.04	1101	Llano-Shawnee Hills Rn.
	34-30-18	118-01-40	3,035	6.80	1101	Little Rock Creek
	34-32-07	117-58-30	2,815	6.31	1101	Calivali Farms
	34-32-14	118-03-48	2,855	6.94	1101	Palmdale-Circle C
	34-34-25	118-06-45	2,662	7.95*	1101	Palmdale-Co. Maint. Yard
	34-34-42	118-10-58	2,950	8.87*	1101	Anaverde Valley-Platt
	34-36-59	118-05-02	2,517	5.35	4004	Palmdale Airport
	34-37-12	118-17-08	3,125	13.24	1101	Leonis Valley-Ritter Rn.
	34-37-23	118-13-57	2,900	8.37	1101	Bellview-Stratman
	34-39-02	117-50-55	2,680	5.31	1101	Piute Butte-Museum
	34-40-57	118-08-03	2,395	5.67	1101	Lancaster-Hwy. Maint.
	34-42-01	118-07-45	2,352	5.44	4004	Lancaster
	34-42-12	118-18-32	2,450	8.01	1101	Antelope Valley Field Sta.
	34-42-15	118-25-40	3,050	12.35	4004	Fairmont
	34-42-50	118-21-15	2,600	9.20*	1101	Munz Valley Rn.
	34-43-15	118-35-00	3,700	16.10	1101	Sawmill Mtn. Rn.
	34-44-06	117-46-58	3,075	4.67	1101	Hi Vista-Card
	34-44-15	118-27-20	2,865	8.71	1101	Fairmont-Barnes
	34-44-37	118-42-43	4,025	13.44	4004	Sandbergs P.S.
	34-44-47	118-43-29	4,517	11.29	4004	Sandberg W.B.
	35-02-49	118-09-58	2,735	5.15	4004	Mojave
	35-04-07	118-10-29	2,850	5.08	1200	Mojave
<u>W-28 Mojave Hydro Unit</u>						
W-28.B	34-14-19	117-14-06	5,723	34.30	4004	Squirrel Inn 2
	34-15-06	117-11-30	5,250	34.40	4004	Lake Arrowhead
	34-25-23	117-18-11	3,200	7.98	5100	Hesperia
	34-31-57	117-18-12	2,900	7.07	4004	Victorville P.P.
W-28.E	34-54-03	117-01-17	2,142	3.54	4004	Barstow
W-28.H	35-23-18	116-06-46	1,045	2.33	4004	Baker 9NNW

\*Partially estimated.

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
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COLORADO RIVER BASIN DRAINAGE PROVINCE (X)

X-05 Emerson Hydro Unit

X-05.0	34-09-44	116-32-25	4,300	7.18	4004	Kee Ranch
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X-09 Dale Hydro Unit

X-09.A	34-08-03	116-03-12	1,990	5.74	4004	Twentynine Palms
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X-12 Ward Hydro Unit

X-12.0	34-08-44	115-07-16	922	3.17	4004	Iron Mtn.
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X-13 Piute Hydro Unit

X-13.C	34-45-48	114-37-08	913	4.04	4004	Needles F.A.A. Airport
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X-15 Colorado Hydro Unit

X-15.D	33-36-34	114-35-45	266	5.88	4004	Blythe
	33-36-50	114-35-54	268	5.37	4103	Blythe F. S.
	33-36-51	114-42-50	390	4.29	4004	Blythe Airport

X-17 Chuckwalla Hydro Unit

X-17.B	33-48-31	115-27-01	973	2.67	4004	Eagle Mtn.
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X-18 Hayfield Hydro Unit

X-18.0	33-42-18	115-37-44	1,370	2.00	4004	Hayfield P.P.
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X-19 Whitewater Hydro Unit

X-19.A	34-03-19	116-34-31	2,580	9.67	4004	Morongo Valley
X-19.C	33-51-58	116-44-59	3,440	25.23	4103	Hurley Flat-Twin Pines
	33-55-03	116-46-56	1,815	14.43	4004	Cabazon
	33-55-39	116-58-47	2,580	17.05	4004	Beaumont

TABLE A-3  
PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>X-19 Whitewater Hydro Unit (continued)</u>						
X-19.D	33-29-37	116-06-44	-170	3.33	4103	Oasis
	33-34-13	116-04-33	-190	3.39	4103	Mecca State Forestry
	33-38-04	116-09-28	-120	3.60	4004	Thermal Airport
	33-40-11	116-18-08	90	3.72	4103	La Quinta F.S.
	33-42-48	116-13-25	-8	5.01	4103	Indio State Forestry
	33-43-21	116-22-17	263	4.39	4103	Palm Desert
	33-43-37	116-14-40	-20	4.30	4004	Indio-U.S. Date Garden
	33-46-56	116-28-00	300	6.58	4103	Cathedral City F.S.
	33-49-01	116-31-38	411	6.24	4004	Palm Springs
	33-52-13	116-40-55	1,940	14.13	4004	Snow Creek-upper
	33-57-48	116-30-08	1,100	4.49	4103	Desert Hot Springs
<u>X-22 Anza-Borrego Hydro Unit</u>						
X-22.A	33-16-08	116-24-59	750	6.65	4004	Borrego Desert Park
X-22.C	33-12-33	116-32-30	4,110	14.24	4004	Ranchita
<u>X-23 Imperial Hydro Unit</u>						
X-23.A	32-40-28	115-28-57	12	2.51	4004	Callexico 2NE
	32-46-02	115-33-52	-32	2.21	4004	El Centro 2SSW
	32-50-57	115-34-06	-69	2.44	4004	Imperial
	32-58-53	115-31-44	-119	2.53	4004	Brawley 2SW
	33-16-41	115-31-23	-55	3.07	4004	Niland
X-23.B	32-44-32	115-57-48	250	2.43	4004	Coyote Wells



TABLE A-3

PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP. IN INCHES	AGENCY	STATION NAME
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## SANTA ANA DRAINAGE PROVINCE (Y)

Y-01 Santa Ana River Hydro Unit

-01.A	33-36-15	117-53-00	8	9.84	4004	Newport Beach Harbor
	33-36-26	117-42-07	400	9.95	5102	El Toro-Moulton
	33-38-13	117-47-54	300	11.49	5102	Irvine Co.-Shady Camp
	33-38-26	117-55-20	90	9.30	5102	Costa Mesa-Dod e
	33-39-13	117-42-53	350	10.63	5102	Irvine Co.-Johnson Rn.
	33-39-39	117-59-57	35	8.33	5102	Huntington Beach
	33-39-43	117-49-50	80	8.86	5102	Irvine Co.-Old Ranch
	33-40-30	117-45-37	200	10.56	5102	Irvine Co.-Warehouse
	33-40-32	117-47-54	100	9.24	5102	Irvine Co.-Harkel Rd. Camp
	33-41-40	117-42-38	480	11.63	5102	Irvine Rn.-Lambert Auto
	33-41-46	117-42-48	400	10.19	5102	Irvine Co.-Lambert
	33-42-38	117-51-16	55	8.03	5102	Dyler-Holly Sugar Co.
	33-42-39	117-31-59	5,660	25.25	5102	Santiago Peak
	33-42-49	117-59-56	25	6.96	5102	Wintersburg-Slater
	33-42-55	117-45-43	197	11.04	5102	San Joaquin Fruit Co.
	33-43-21	118-00-46	25	7.65	5102	Wintersburg-Murdy Rn.
	33-44-18	117-48-00	106	7.20	5102	Tustin Automatic
	33-44-38	117-52-04	115	9.71	4004	Santa Ana F. S.
	33-45-00	117-52-12	145	10.01	5102	Santa Ana-O.C.F.C.D.
	33-46-13	117-56-03	90	8.20	5102	Garden Grove-Co. Rd. Dept.
	33-46-15	117-43-15	1,000	13.21	5102	Irvine Co.-Limestone Rn.
	33-47-15	117-50-26	216	13.02	5102	Orange-U.S.F.S.
	33-47-44	117-54-08	135	8.97	5102	Anaheim-Katella Substation
	33-48-35	118-00-06	55	9.48	5102	Stanton-Clark
	33-48-52	117-49-20	290	10.13	5102	Villa Park Orchard Assn.
	33-49-12	117-54-48	147	8.89	5102	Anaheim Automatic
	33-49-46	117-54-42	150	8.47	5102	Anaheim Water Works
	33-50-16	117-50-43	230	10.14	5102	Olive Hqts. Citrus Assn.
	33-51-33	117-53-06	190	8.20	5102	Placentia-A.U. Water Co.
Y-01.B	33-49-51	117-34-41	1,225	16.19	4701	Corona-Foothill Lemon 2
	33-50-35	117-34-36	1,050	13.44	4701	Corona-Foothill Lemon 1
	33-52-23	117-33-56	680	12.39	5717	Corona-Temesal Water 3
	33-55-58	117-56-38	315	9.01	5102	La Habra F. S.
	33-57-06	117-23-46	820	9.36	4004	Riverside Fire Sta. No. 3
	33-57-37	117-16-42	3,040	12.04	4103	Box Springs
	33-58-21	117-19-48	1,050	10.40	4004	Riverside Citrus Exp. Sta.
	33-58-32	117-35-38	660	10.29	5100	Chino-Imbach
	33-58-43	117-22-29	875	11.65	4103	Riverside
	33-59-52	117-40-50	670	10.39	4740	Chino-S.C.E. Substation
	34-01-34	117-46-06	820	11.46*	1101	Pomona-Rivera
	34-03-17	117-45-02	876	12.36*	1101	Pomona Fire Dept.
	34-03-22	117-19-08	940	12.61	4740	Colton-S.C.E. Substation
	34-03-41	117-41-16	965	11.54	5100	Monte Vista F. S.

\*Partially estimated.

TABLE A-3

## PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>Y-01 Santa Ana River Hydro Unit (continued)</u>						
Y-01.B	34-04-05	117-35-25	975	11.97	4731	Guasti Wine Co.
	34-05-45	117-42-57	1,180	13.12	1101	Claremont F. S.
	34-05-48	117-42-33	1,185	13.21	4004	Claremont-Pomona College
	34-06-03	117-26-04	1,279	14.33	5100	Fontana-Herald News
	34-06-06	117-26-09	1,280	13.74	4706	Fontana-Union Water Co.
	34-06-28	117-25-36	1,325	14.32	5100	Fontana B.B. Co.
	34-07-08	117-40-45	1,508	14.70*	1101	Upland-Cadnum
	34-07-22	117-43-11	1,403	14.16	1101	Claremont-Indian Hills
	34-07-57	117-31-24	1,395	14.12	5100	Etwanda S.F.
	34-08-23	117-40-35	1,830	15.61	4004	Upland 3N
	34-09-20	117-40-55	2,090	16.97	1101	San Antonio Spr. Grds.
	34-09-24	117-40-20	2,120	11.20	1101	San Antonio Dam
	32-12-50	117-40-10	3,200	23.76	1101	San Antonio Cn.-Sierra P.H.
Y-01.C	33-42-39	117-31-59	5,660	25.25	5100	Santiago Peak
	33-50-28	117-21-30	1,540	9.38	4103	Cajalco No. 2
	33-50-35	117-26-47	1,375	8.95	4103	Lake Matthews No. 1
Y-01.D	33-59-43	117-13-55	1,880	14.45	4103	Reche Canyon-Atopa Ranch
	34-04-00	117-19-23	980	13.43	5100	Colton Fire Dept.
	34-06-24	117-21-50	1,246	13.14	5100	Rialto
	34-07-26	117-20-53	1,225	14.12	3200	Lytle Cr.-S.B.W.D. Plant
	34-09-20	117-23-46	1,590	15.77	4740	Fontana Powerhouse
	34-12-07	117-27-00	2,225	25.11	4740	Lytle Cr. P.H.
	34-12-14	117-26-45	2,250	24.53	4004	Lytle Cr. P.H. No. 1
	34-12-16	117-26-57	2,300	23.70	4706	Lytle Cr. F.U.W. Intake
	34-13-57	117-28-52	2,720	23.87	4004	Lytle Cr. R. S.
	34-14-14	117-29-28	2,800	26.42	4740	Lytle Cr. S.C.E. Intake
Y-01.E	34-02-00	117-02-12	2,810	11.12	5100	Yucaipa F.S.
	34-03-03	117-11-28	1,360	11.84	4004	Redlands
	34-04-02	117-08-02	1,650	15.62	4730	Mentone-Crafton Orange Co.
	34-04-15	117-07-15	1,765	11.75	5100	Mentone F.C.S.
	34-05-16	117-02-19	2,965	21.81	4004	Mill Cr. No. 2
	34-06-09	117-17-27	1,030	11.68	3200	Hanford Plant S.B.W.D.
	34-06-47	117-10-07	1,370	10.66	4732	E. Highland-Gold Buckle
	34-07-17	117-09-58	1,525	15.88	5100	E. Highland-Orange Co.
	34-07-42	117-16-05	1,125	14.49*	4004	San Bernardino Hosp.
	34-08-15	117-12-30	1,370	16.04	5100	Patton S.B.
	34-08-46	117-03-26	2,765	22.51	4004	Santa Ana River P.H. No. 1
	34-10-21	117-18-44	1,415	17.14	3200	Newmark Res.
	34-12-06	117-19-58	1,900	20.11	3200	Devil Cn.
	34-12-16	117-06-05	6,000	21.19	5100	Running Springs
Y-01.F	33-55-39	116-58-47	2,580	17.05	4004	Beaumont
Y-01.G	34-14-26	116-58-34	6,815	30.77	4004	Big Bear Lake Dam

\*Partially estimated.

TABLE A-3

PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
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Y-02 San Jacinto Valley Hydro Unit

Y-02.B	33-47-15	116-58-06	1,550	12.05	4004	San Jacinto
	33-55-39	116-58-47	2,580	17.05	4004	Beaumont
	33-55-48	116-57-01	2,600	16.11	4103	Beaumont S.F. Sta.
Y-02.C	33-40-06	117-19-51	1,300	9.98	4004	Elsinore

TABLE A-3

PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
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## SAN DIEGO DRAINAGE PROVINCE (Z)

Z-01 San Juan Hydro Unit

Z-01.A	33-32-48	117-46-53	56	9.91	4004	Laguna Beach
	33-36-26	117-42-07	400	9.95	5102	El Toro-Moulton
Z-01.B	33-27-56	117-41-12	20	10.42	5102	Capistrano Beach Auto.
	33-30-42	117-38-29	150	11.54	5102	San Juan Capistrano
	33-30-44	117-39-58	150	11.09	5102	San Juan Cap. Substa.
	33-42-39	117-31-59	5,660	25.25	5102	Santiago Peak
	33-44-55	117-38-27	1,275	16.73	5102	Silverado Cn. Holtz
Z-01.C	33-25-45	117-36-52	135	11.50	5102	San Clemente

Z-02 Santa Margarita Hydro Unit

Z-02.A	33-13-00	117-23-43	60	9.29	4004	Oceanside-Pendleton
Z-02.G	33-33-18	116-39-52	3,900	15.13	4004	Anza

Z-03 San Luis Rey Hydro Unit

Z-03.A	33-15-32	117-01-26	1,615	13.00	4004	Valley Center 3NE
Z-03.B	33-14-18	116-45-40	2,700	25.49	4004	Henshaw Dam
Z-03.C	33-17-06	116-38-10	3,180	15.31	4004	Warner Springs
	33-20-42	116-50-42	5,560	27.46	4004	Palomar Mtn. Observ.

Z-04 Carlsbad Hydro Unit

Z-04.A	33-11-38	117-22-37	67	11.65	4002	Oceanside No. 4
Z-04.E	33-03-45	117-15-15	100	8.40	4002	Scott Ranch
Z-04.F	33-01-12	117-12-06	240	9.61	4002	Rancho Santa Fe

Z-05 San Dieguito Hydro Unit

Z-05.A	32-57-17	117-15-37	225	8.44	4002	Del Mar
	32-59-06	117-15-10	200	7.59	4004	Lockwood Mesa
	33-01-12	117-12-06	240	9.61	4002	Rancho Santa Fe

TABLE A-3

PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>Z-05 San Dieguito Hydro Unit (continued)</u>						
Z-05.C	33-10-12	116-59-47	1,520	14.97	4002	Lake Wohlford
Z-05.D	33-03-41	116-50-53	1,470	14.56	4004	Ramona-Spaulding
Z-05.E	33-06-30	116-40-27	2,984	25.59	4002	Santa Ysabel Store
	33-12-16	116-45-43	3,600	28.67	4002	Holdredge Ranch
<u>Z-06 Penasquito Hydro Unit</u>						
Z-06.A	32-59-06	117-15-10	200	7.59	4004	Lockwood Mesa
Z-06.B	32-57-00	117-03-48	440	11.40*	4004	Poway Valley
<u>Z-07 San Diego Hydro Unit</u>						
Z-07.A	32-46-51	117-02-38	535	10.03	4002	Murray Dam
	32-51-56	116-53-39	450	13.03	4004	Lakeside 2ENE
	32-53-09	116-48-40	600	13.37	4004	El Capitan Dam
Z-07.D	32-59-20	116-35-12	4,650	37.92	4004	Cuyamaca
	33-05-34	116-38-39	3,655	23.17	4004	Julian Wynola
	33-06-30	116-40-27	2,984	25.59	4002	Santa Ysabel Store
<u>Z-08 Coronado Hydro Unit</u>						
Z-08.A	32-40-22	117-14-27	410	8.26	4004	Cabrillo N. M.
Z-08.B	32-43-59	117-10-32	19	7.05	4004	San Diego W.B. A.P.
	32-46-12	117-00-44	528	11.28	4004	La Mesa
Z-08.C	32-40-04	117-06-42	15	6.70	4002	National City
<u>Z-09 Sweetwater Hydro Unit</u>						
Z-09.A	32-37-57	117-05-39	25	8.28	4002	Chula Vista No. 2
	32-39-34	117-01-56	105	9.09	4004	Bonita
	32-41-33	117-00-31	300	9.59*	4004	Sweetwater Dam
	32-46-12	117-00-44	528	11.28	4004	La Mesa
Z-09.B	32-46-52	116-47-38	1,400	15.76*	4002	Lake Loveland
Z-09.C	32-51-31	116-37-39	3,550	25.52	4004	Descanso R. S.

\*Partially estimated.

TABLE A-3

PRECIPITATION AT SOUTHERN CALIFORNIA STATIONS JULY 1963 TO JUNE 1964

HYDRO SUBUNIT	LATITUDE	LONGITUDE	ELEV. IN FEET	PRECIP IN INCHES	AGENCY	STATION NAME
<u>Z-10 Otay Hydro Unit</u>						
Z-10.B	32-36-03	117-05-32	9	8.37	4004	Chula Vista
<u>Z-11 Tia Juana Hydro Unit</u>						
Z-11.B	32-40-49	116-40-21	1,623	16.07	4004	Barrett Dam
Z-11.H	32-39-47	116-20-28	3,250	11.96	4004	Boulevard

APPENDIX B

SURFACE WATER FLOW





## Introduction

Runoff in Southern California streams is generally responsive to the amount and intensity of precipitation. The estimated unimpaired runoff (runoff unaffected by the works of man) for selected stations representative of conditions in Southern California is presented in Table B-1, together with a comparison with the mean for the 53-year period, 1894-95 through 1946-47. Estimated or measured maximum and minimum flows for each station during the period of record are also given.

Historical unimpaired runoff at four selected stations and the accumulated deviation from the mean seasonal unimpaired runoff are charted on: Figure B-1 for Huasna River near Arroyo Grande; Figure B-2 for Arroyo Seco near Pasadena; Figure B-3 for Santa Ysabel Creek at Sutherland Dam; and Figure B-4 for Big Rock Creek near Valyermo.

The amount of water in storage on the first day of each month of the 1964 water year in selected reservoirs in or supplying water to Southern California is presented in Table B-2.

Data for the 1963-64 water year deliveries of Colorado River water to each of the coastal counties are presented in Table B-3. Table B-4 gives quantities of water diverted from the Colorado River for use in California by each principal agency during the 1964 calendar year. A historical record of net diversions of Colorado River water to California from calendar years 1935 through 1964 is shown graphically on Figure B-5. Figure B-6 presents historical importation of water to coastal Southern California.

The extent of stream flow data collection activities by the Department of Water Resources in Southern California is limited to the

construction, operation, and maintenance of stream-gaging stations in the vicinity of the State Water Project located on Castaic Creek, Elizabeth Lake Canyon Creek, and tributaries to the West Fork of the Mojave River. The daily mean discharges at these stream-gaging stations are presented in Table B-5.

#### Measurement Techniques

The streamflow data reported in the daily discharge tables are derived through the use of mechanical, arithmetical, and empirical methods. For each stream-gaging station, a stage-discharge relationship, or rating, curve has been developed. The rating gives the flow in cubic feet per second for each gage height at the station. The gage height is usually measured by an automatic water stage recorder.

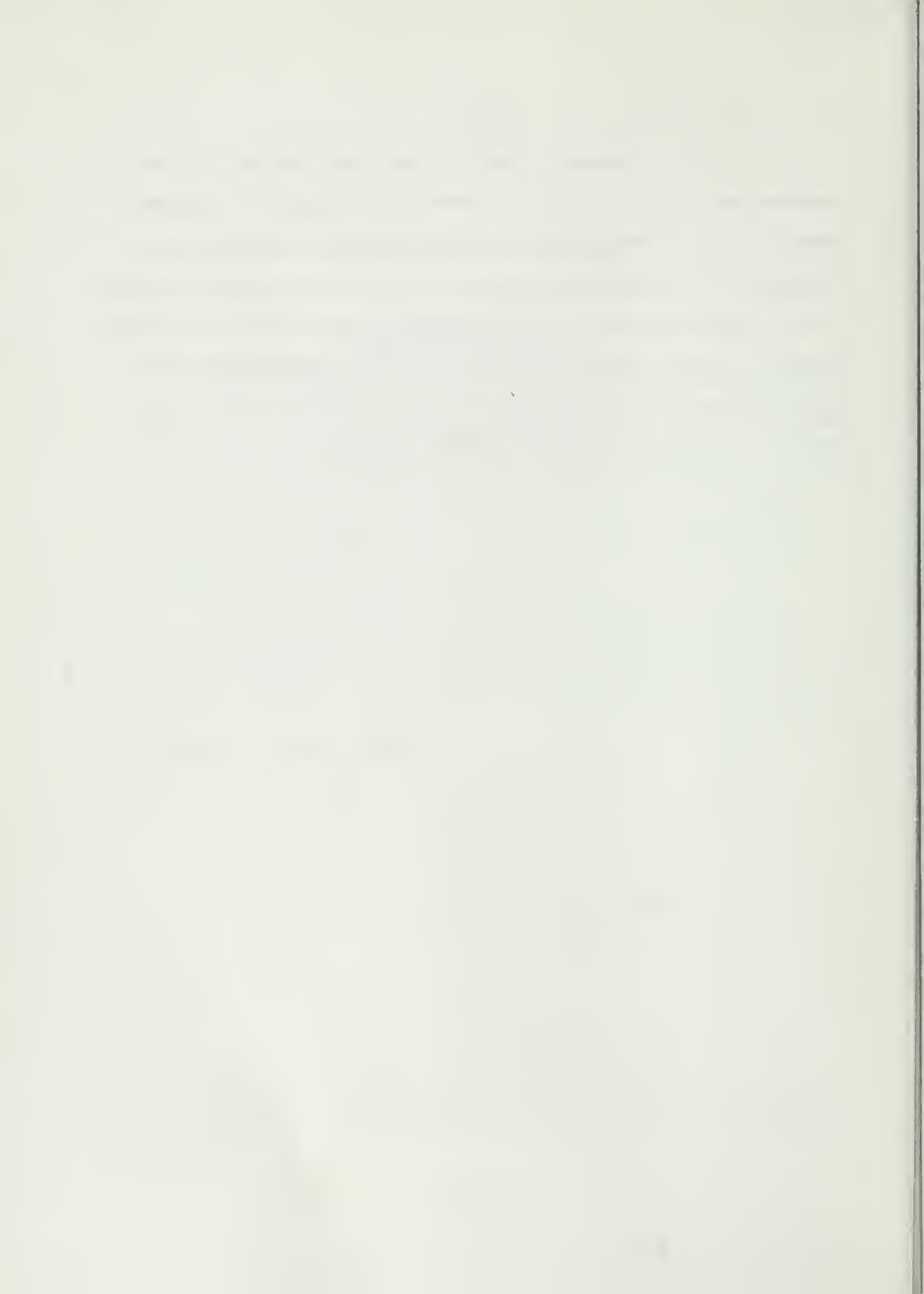
The data presented in the daily mean discharge tables are affected by inaccuracies in the procedures and equipment. The following is a listing of significant figures used to establish limits of accuracy for reporting the streamflow data:

- |                |    |                           |
|----------------|----|---------------------------|
| 1. Daily flows | -- | cubic feet per second     |
| 0.0 - 9.9      | -- | tenths                    |
| 10 - 99        | -- | two significant figures   |
| 100 - up       | -- | three significant figures |
| 2. Means       | -- | cubic feet per second     |
| 0.0 - 99.9     | -- | tenths                    |
| 100 - 999      | -- | three significant figures |
| 1,000 - above  | -- | four significant figures  |

The water year totals are reported to a maximum of four significant figures.

### Coding

Numerical systems are used for identifying surface water measurement stations. A six-digit number based on a hydrologic area numbering concept is used to identify these stations. The first digit is a letter designating the hydrographic area; the second digit is a number indicating the river basin; the third, a number designating the reach of the stream; and the last three digits, numbers in sequence which are assigned to the stations. These last three numbers start at the downstream end of the reach and increase in size in the upstream direction.



DATA

SURFACE WATER FLOW

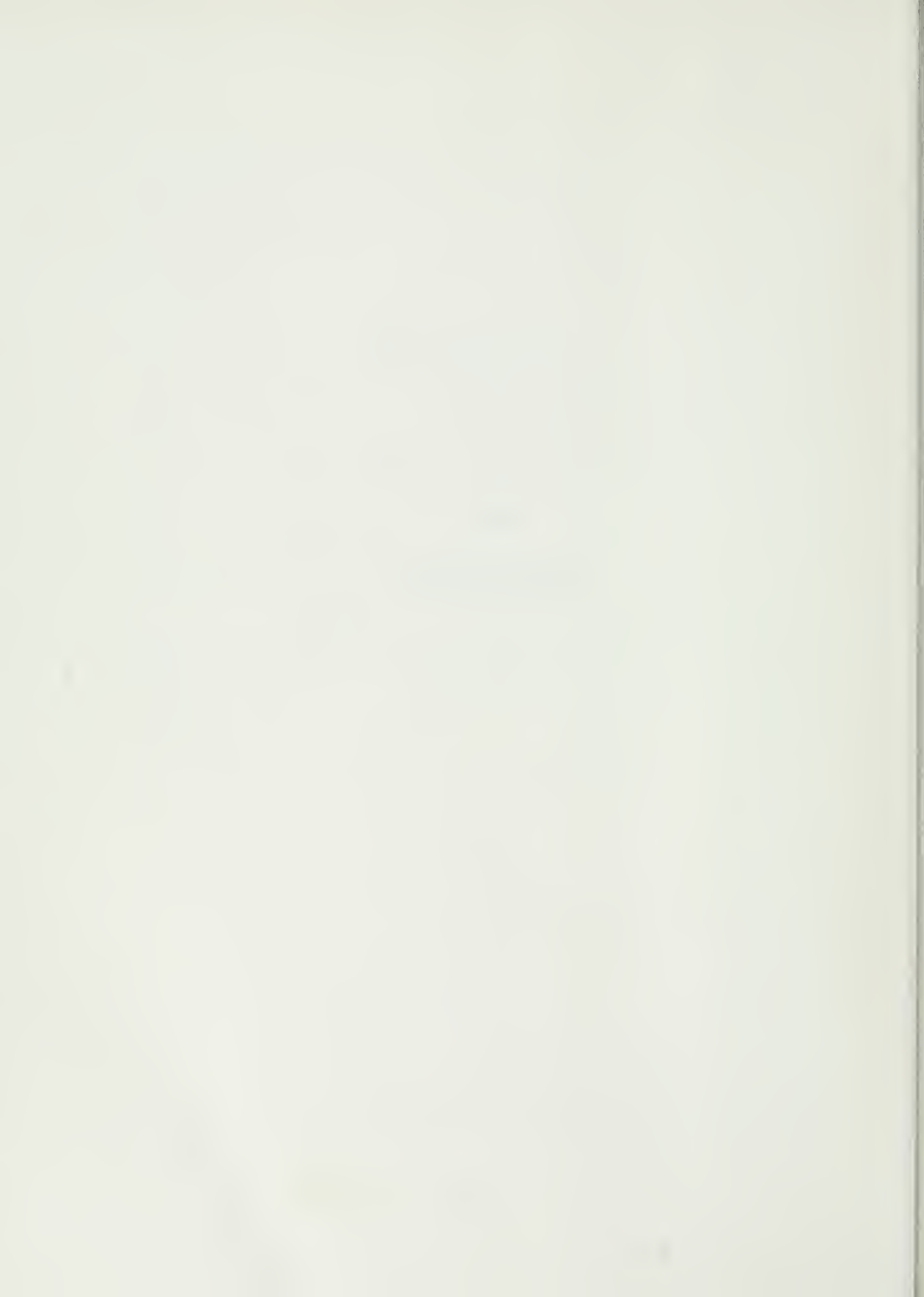


TABLE B-1

ESTIMATED 1963-64 SEASONAL UNIMPAIRED RUNOFF AT  
SELECTED STATIONS IN SOUTHERN CALIFORNIA

In acre-feet

Station	Period of record	1963-64	53-year mean	Percent of mean	Maximum <sup>b</sup>		Minimum <sup>b</sup>	
					Season	Quantity	Season	Quantity
<u>Central Coastal Drainage Province</u>								
Arroyo Grande at Arroyo Grande	1939 to date	2,320	23,900	10	1906-07	76,200	1930-31 <sup>e</sup>	800
Huachuca River near Arroyo Grande	1959 to date	200	17,200 <sup>d</sup>	1	1906-07	64,730 <sup>d</sup>		0 <sup>d</sup>
<u>Los Angeles Drainage Province</u>								
Sespe Creek near Fillmore	1911-13							
Arroyo Seco near Pasadena	1926 to date	13,660	93,900	15	1940-41	376,000	1950-51	3,520
Santa Anita Creek near	1910 to date	1,390	7,290	19	1921-22	25,400	1898-99	160
Sierra Madre	1910 to date	1,100	4,920	22	1942-43	16,600	1898-99	210
San Gabriel River near Azusa	1894 to date	24,000	122,000	20	1921-22	410,000	1960-61	1,250
<u>Lahontan Drainage Province</u>								
Owens River below Long Valley	1916 to date	102,600	168,500	61	1906-07	292,000	1930-31	73,010
Big Rock Creek near Valyermo	1923-37							
	1938 to date	2,890	15,000	19	1921-22	34,000	1950-51	1,360
Deep Creek near Hesperia	1904-22							
	1929 to date	10,170	47,100 <sup>f</sup>	22	1921-22	177,000 <sup>g</sup>	1960-61	4,240 <sup>g</sup>
<u>Colorado River Basin Drainage Province</u>								
Colorado River at Lee's Ferry	1911 to date	0,312,000	11,600,000 <sup>h</sup>	56	1916-17	21,660,000 <sup>g</sup>	1933-34	4,377,000 <sup>g</sup>
Colorado River below Hoover Dam	1933 to date	8,234,000	11,168,000 <sup>h</sup>	74	1941-42	17,880,000 <sup>g</sup>	1933-34	5,056,000 <sup>g</sup>

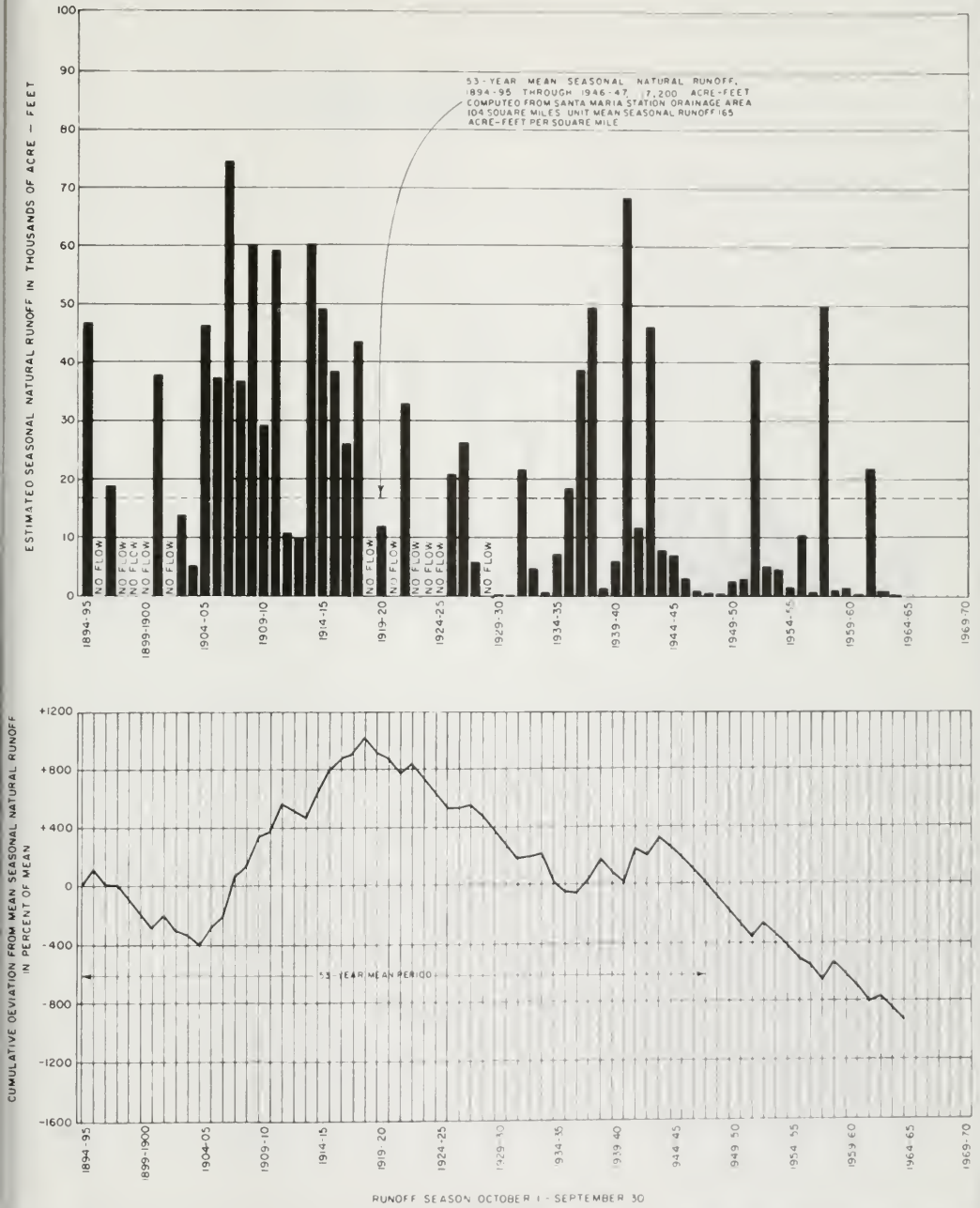
ESTIMATED 1963-64 SEASONAL UNIMPAIRED RUNOFF AT  
SELECTED STATIONS IN SOUTHERN CALIFORNIA  
(continued)

In acre-feet

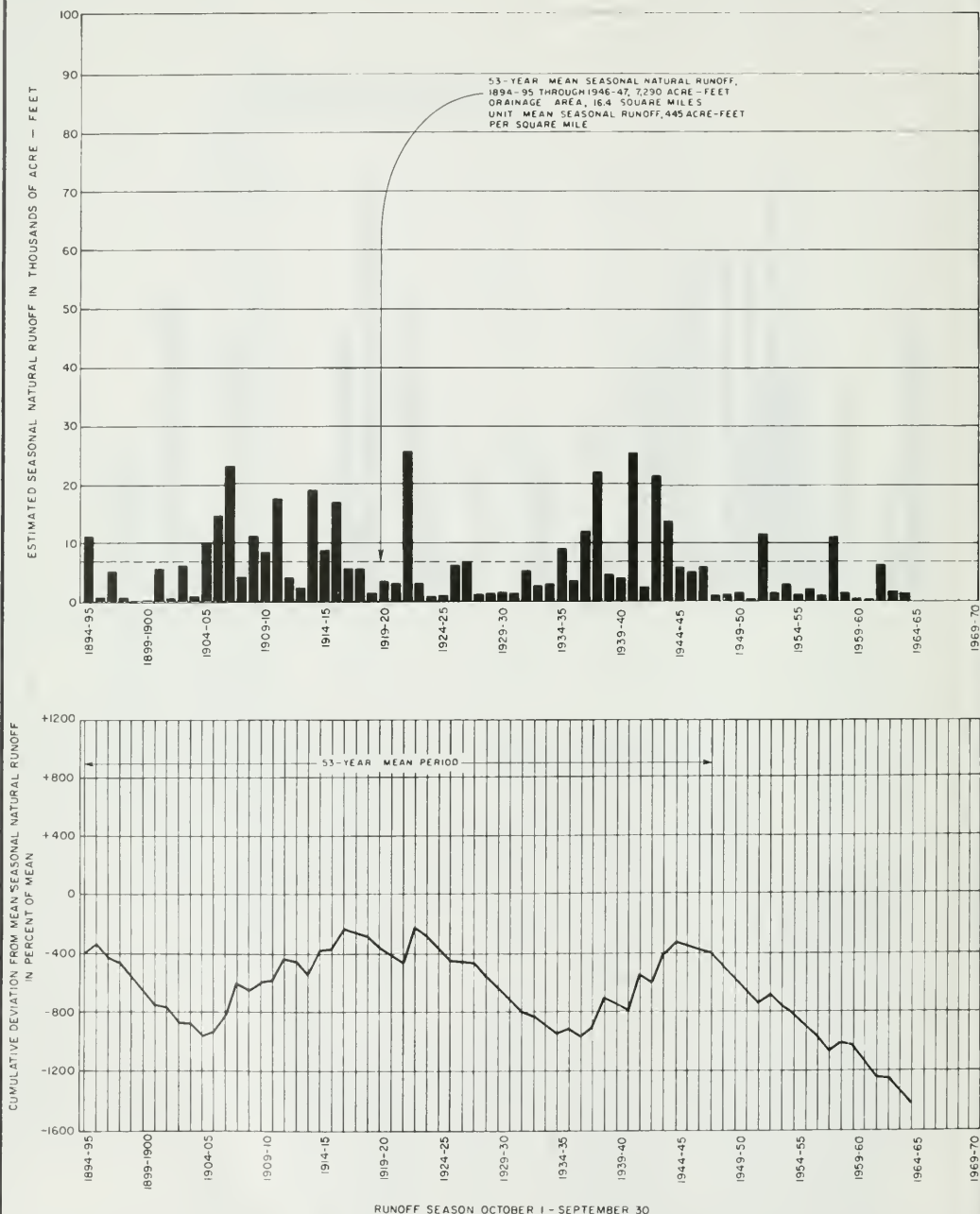
Station	Period of record	1963-64	53-year mean <sup>a</sup>	Percent of mean	Maximum <sup>b</sup>		Minimum <sup>b</sup>	
					Season	Quantity	Season	Quantity
<u>Colorado River Basin Drainage Province (continued)</u>								
Colorado River at Yuma	1878 to date	974,600	5,646,000 <sup>c,d</sup>	17	1908-09	26,070,000 <sup>e,g</sup>	1960-61	707,270 <sup>e,g</sup>
Palm Canyon Creek near Palm Springs	1930-41 1947 to date	340	3,580 <sup>k</sup>	9	1936-37	18,980 <sup>g</sup>	1955-56	0.2 <sup>g</sup>
<u>Santa Ana Drainage Province</u>								
Cucamonga Creek near Upland	1928 to date	1,490	6,190	24	1921-22	20,900	1898-99	930
Santa Ana River near Mentone	1896 to date	17,660	70,600	25	1915-16	293,000	1898-99	16,500
<u>San Diego Drainage Province</u>								
Murrieta Creek at Temecula	1930 to date	280	8,670	3	1915-16	60,300	1960-61	320
Santa Isabel Creek at Sutherland Dam	1936 to date	500	15,200	3	1915-16	95,200	1960-61	130
Cottonwood Creek at Morena Dam	1936 to date	180	12,400	1	1915-16	75,300	1960-61	70

- a. Mean for period 1894-95 through 1946-47, except as noted.  
b. Indicated maxima and minima are recorded or estimated values for period 1894-95 to date except as noted.  
c. Measured runoff, unadjusted for upstream development.  
d. 53-year mean computed from Santa Maria Station.  
e. Zero flow reported for eleven seasons.  
f. Average for period 1920-21 through 1949-50.  
g. Indicated maxima and minima are recorded or estimated values for a given period of record.  
h. Average for period 1922-23 through 1955-56.  
i. Average for period 1936-37 through 1955-56.  
j. Average for period 1930-31 through 1940-41 and 1947-48 through 1957-58.  
k. Average for period 1930-31 through 1940-41 and 1947-48 through 1957-58.

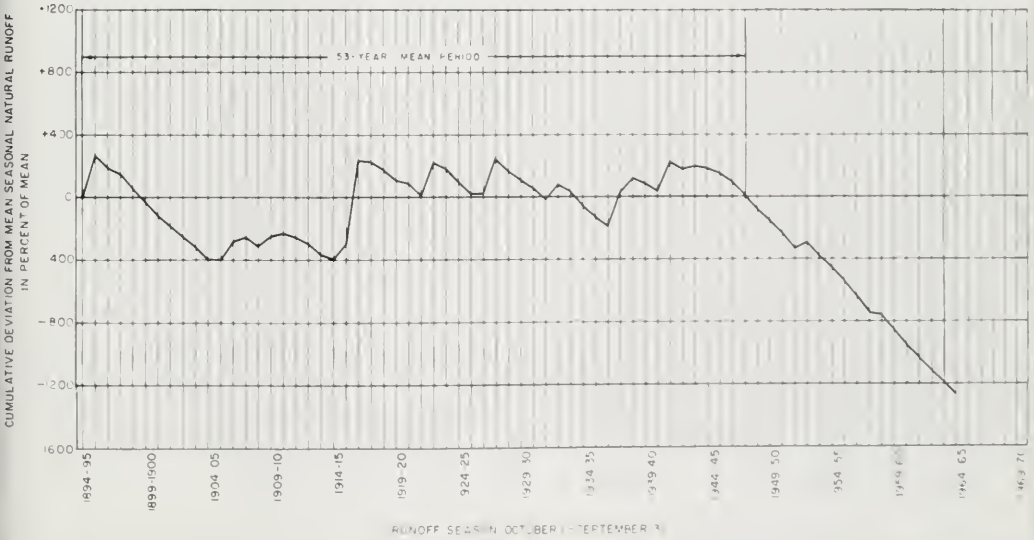
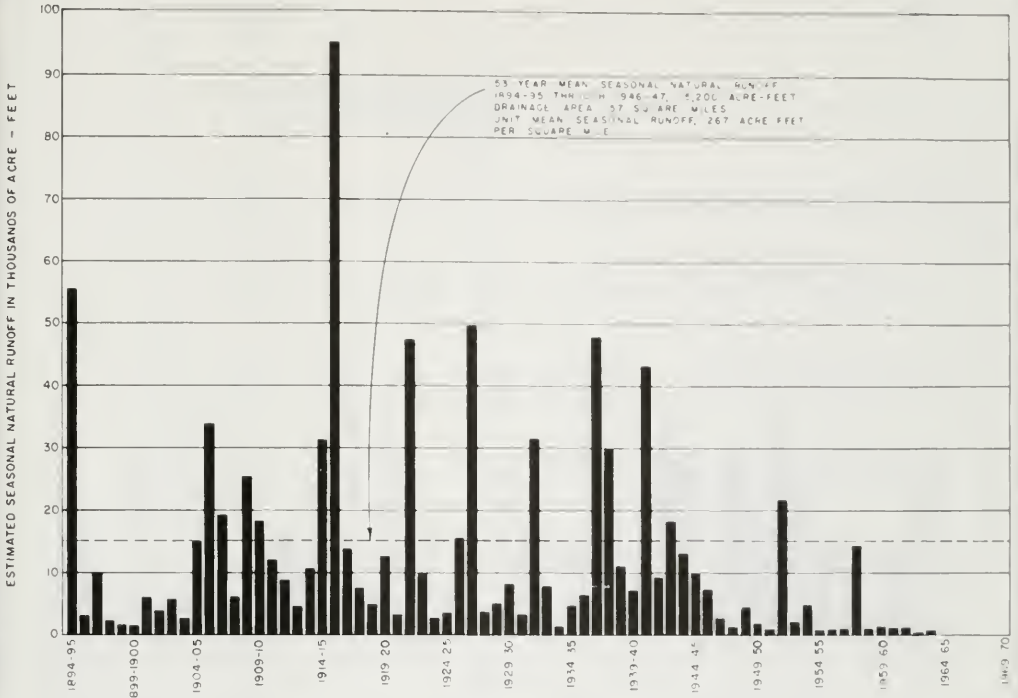




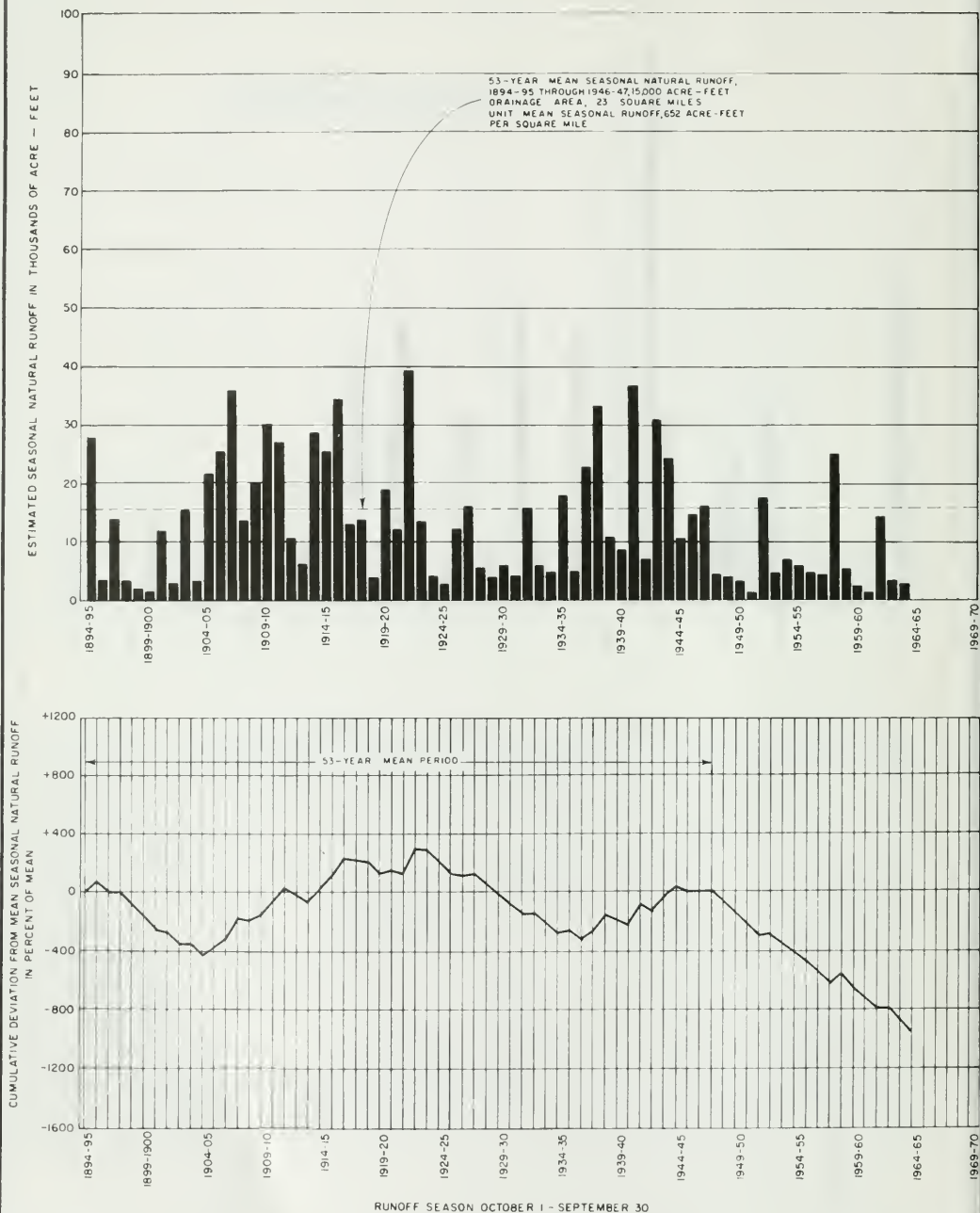
# REPRESENTATIVE RUNOFF CHARACTERISTICS HUASNA RIVER NEAR ARROYO GRANDE



# REPRESENTATIVE RUNOFF CHARACTERISTICS ARROYO SECO NEAR PASADENA



# REPRESENTATIVE RUNOFF CHARACTERISTICS SANTA YSABEL CREEK AT SUTHERLAND DAM



# REPRESENTATIVE RUNOFF CHARACTERISTICS BIG ROCK CREEK NEAR VALYERMO

TABLE B-2  
MONTHLY WATER CONTENT OF SELECTED SURFACE RESERVOIRS  
IN OR SUPPLYING WATER TO SOUTHERN CALIFORNIA  
OCTOBER 1, 1963 TO SEPTEMBER 1, 1964

Drainage province: and stream		Reservoir	Capacity, in acre-feet	October	November	December	January	February	March	April	May	June	July	August	September
Water in storage on first day of month, in acre-feet															
Central Coastal															
Old Creek	Whale Rock	40,000	11,690	11,690	12,003	12,060	12,060	12,060	11,946	12,068	11,946	11,413	10,838	10,437	10,173
Santa Ynez River		14,000	8,826	8,308	8,795	7,444	7,444	7,444	8,187	7,144	7,992	7,593	7,194	6,783	6,783
Gibraltar		204,900	171,736	170,011	169,604	168,574	167,468	166,063	162,217	164,186	162,217	159,666	155,137	150,135	145,237
Twitcheil		239,000	1,856	1,775	1,815	1,849	0	0	0	0	0	0	0	0	0
Los Angeles															
Castas		248,000	48,406	47,049	46,896	46,364	46,222	45,796	45,471	45,828	45,471	44,680	44,078	42,884	41,588
Coyote Creek		100,000	12,648	12,200	12,565	12,483	13,089	13,325	7,344	13,132	7,344	7,618	7,419	7,052	6,686
Piru Creek		36,510	27,514	22,127	21,374	21,572	22,076	32,464	34,886	35,570	34,886	34,950	34,091	33,184	30,204
Bouquet Creek															
San Joaquin															
Grant Lake		47,530	46,544	41,319	43,953	43,533	44,006	39,146	34,534	34,534	30,878	32,687	37,116	37,216	32,976
Ruoh Creek		183,470	170,595	160,727	152,625	146,144	142,064	147,718	147,638	151,222	149,828	149,828	151,699	149,364	142,514
Owens River		58,530	33,675	44,075	50,040	53,419	54,109	53,419	47,993	47,993	44,702	42,835	40,110	28,596	18,340
Haivee (South)															
Colorado River															
Basin															
Colorado River		27,207,000	17,371,000	16,910,300	16,518,000	16,012,000	15,448,000	15,090,000	14,609,000	14,609,000	14,564,000	14,140,000	13,446,000	12,599,000	12,098,800
Meade		1,810,000	1,406,400	1,381,200	1,393,000	1,551,000	1,696,000	1,674,100	1,715,200	1,715,200	1,790,200	1,790,200	1,655,200	1,537,900	1,418,000
Mohave		619,000	540,900	546,300	542,700	531,900	547,200	536,400	546,300	546,300	577,400	612,200	580,000	573,400	558,200
Havasu															
Santa Ana															
Bear Creek		72,170	2,810	2,631	2,751	2,810	2,989	3,049	3,920	3,920	6,212	6,784	6,594	5,511	4,300
San Jacinto River		13,400	518	593	667	735	756	976	1,182	1,182	1,507	1,663	1,715	1,594	1,292
Redwood Canyon*		14,700	1,910	1,616	1,537	1,381	1,220	2,756	896	896	5,288	4,796	4,004	2,951	2,159
Calacito Creek		182,000	170,779	167,353	177,295	169,340	176,686	169,739	159,223	159,223	150,512	143,940	122,270	112,522	112,522
Santiago Creek		25,000	2,870	2,795	2,795	2,820	3,105	5,400	6,915	6,915	6,940	6,870	6,960	6,960	6,965
San Diego															
Temecula Creek		49,500	1,585	1,569	1,582	1,589	1,627	1,648	1,774	1,774	1,812	1,801	1,741	1,659	1,570
San Luis Rey River		194,320	4,990	5,370	6,088	6,568	6,984	7,145	7,064	7,064	6,967	6,800	6,341	5,794	5,289
Santa Ysabel Creek		29,680	2,948	2,895	2,898	2,874	2,891	2,875	3,020	3,020	3,175	3,189	3,116	3,019	2,915
San Dieguito River		33,550	3,032	3,529	3,967	3,460	3,054	2,463	2,656	2,656	2,495	2,471	2,356	2,263	2,382
San Vicente Creek		90,230	57,856	58,976	64,879	67,765	68,467	65,979	67,550	67,550	65,102	66,598	64,360	61,398	61,398
Boulder Creek		11,600	0	0	24	1	24	4,596	321	321	574	0	0	0	0
San Diego River		10,500	4,423	4,434	4,477	4,638	4,618	4,595	4,542	4,542	4,477	4,434	4,434	4,213	4,151
El Capitan Lake*		112,810	8,336	8,883	10,130	9,837	8,460	8,436	8,504	8,504	8,774	9,608	9,461	9,226	9,010
Sweetwater															
River		25,290	1,417	1,418	1,424	1,415	1,406	1,420	1,435	1,435	1,440	1,449	1,463	1,430	1,402
Sweetwater (Main)*		27,150	2,502	2,458	2,519	2,522	2,467	2,466	2,490	2,490	2,393	2,505	2,610	2,526	2,410
Otay River		56,520	3,185	3,101	2,959	2,939	2,939	2,899	2,899	2,899	2,859	2,781	2,723	2,646	2,554
Cottonwood Creek		50,210	342	342	342	337	352	357	390	390	400	384	352	312	279
Barrett		44,750	1,246	1,238	1,238	1,231	1,246	1,238	1,238	1,238	1,255	1,231	1,191	1,130	1,094

\*Includes Imported Colorado River Water.

\*Includes Imported Colorado River Water.

TABLE B-3

COLORADO RIVER WATER IMPORTED TO  
COUNTIES IN COASTAL SOUTHERN CALIFORNIA  
DURING 1963-64 WATER YEAR

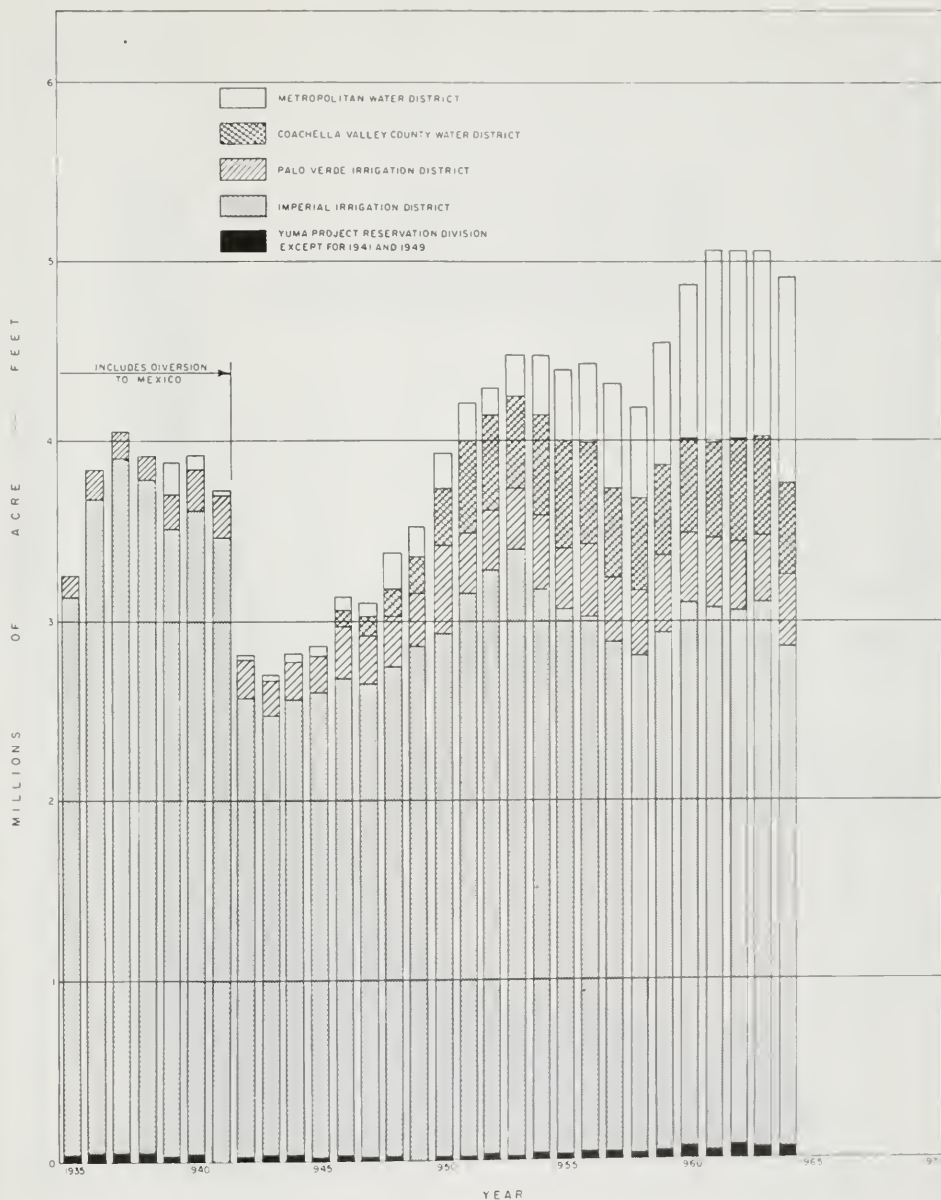
County	Seasonal import, in acre-feet
Los Angeles County	465,395
San Diego County	230,912
Orange County	306,694
Riverside County	82,656
San Bernardino County	16,667
Ventura County	6,955
TOTAL	1,109,279

TABLE B-4

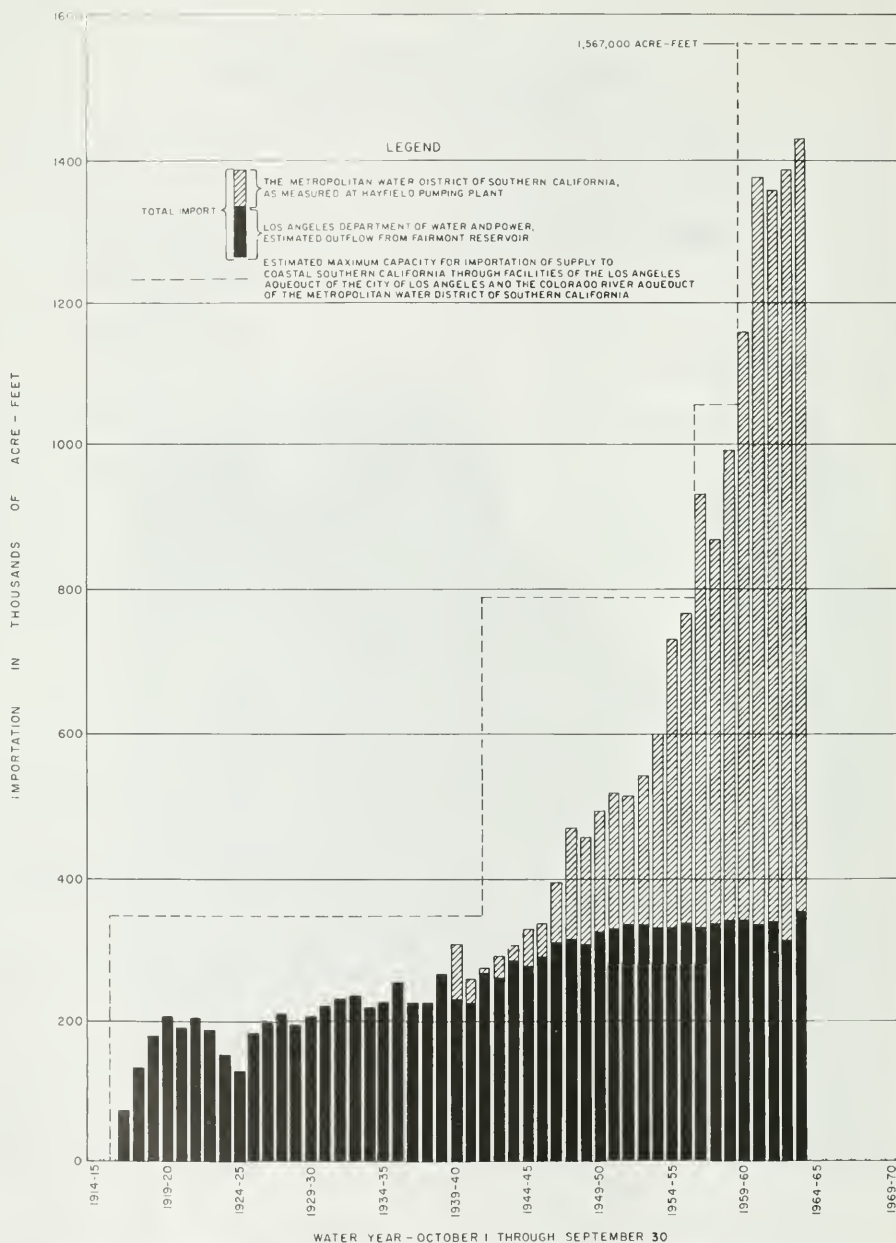
QUANTITIES OF WATER DIVERTED FROM  
THE COLORADO RIVER FOR USE IN CALIFORNIA  
DURING 1964

Agency	Diversion, in acre-feet
The Metropolitan Water District of Southern California	1,129,400
Palo Verde Irrigation District	400,740
Imperial Irrigation District	2,807,670
Coachella Valley County Water District	511,080
Yuma Project (Reservation Division)	49,510
TOTAL	4,898,400





## NET DIVERSIONS OF WATER TO CALIFORNIA FROM THE COLORADO RIVER



# HISTORICAL IMPORTATIONS OF WATER TO COASTAL SOUTHERN CALIFORNIA



TABLE B-5  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1964	V92200	WEST FORK OF MOJAVE RIVER BELOW CEDAR SPRINGS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.2	0.3	0.2	0.5	103 *	1.2	6.4	6.4	0.0	0.0	1
2	0.0	0.0	0.1	0.1	0.2	0.4	73 *	1.7	4.4	4.3	0.0	0.0	2
3	0.0	0.0	0.1	0.3	0.2	0.4	37 *	1.7	4.4	4.3	0.0	0.0	3
4	0.0	0.0	0.1	0.3	0.2	0.4	27	1.8	4.4	4.4	0.0	0.0	4
5	0.1	0.0	0.1	0.3	0.2	0.4	23	1.8	4.4	4.4	0.0	0.0	5
6	0.0	0.0	0.1	0.3	0.2	0.4	23	7.4	4.4	4.4	0.0	0.0	6
7	0.0	0.0	0.1	0.3	0.3	0.3	18	9.4	4.4	4.4	0.0	0.0	7
8	0.0	0.0	0.1	0.2	1.1	0.4	11	6.4	4.4	4.0	0.0	0.0	8
9	0.0	0.0	0.4	0.2	0.3	0.4	9.4	9.4	4.4	4.0	0.0	0.0	9
10	0.0	0.0	0.1	0.2	0.3	0.4	9.1	6.4	4.4	4.0	0.0	0.0	10
11	0.0	0.0	0.3	0.2	0.3	0.4	7.5	6.4	3.2	0.0	0.0	0.0	11
12	0.0	0.0	0.3	0.2	0.3	0.5	5.8	3.7	3.7	0.0	0.0	0.0	12
13	0.1	0.0	0.1	0.2	0.3	0.5	4.3	3.7	3.7	0.0	0.0	0.0	13
14	0.1	0.0	0.1	0.2	0.3	0.4	1.8	4.4	4.6	4.0	0.0	0.0	14
15	0.1	0.0	0.1	0.2	0.3	0.4	1.3	4.4	3.4	4.0	0.0	0.0	15
16	0.1	0.0	0.3	0.2	0.3	0.4	1.4	4.4	4.4	4.0	0.0	0.0	16
17	0.1	0.0	0.1	0.2	0.3	0.4	1.5	4.4	4.4	4.0	0.0	0.0	17
18	0.0	0.0	0.1	0.2	0.3	0.4	1.4	4.4	4.4	4.0	0.0	0.0	18
19	0.0	0.0	0.1	0.2	0.4	0.4	1.0	4.4	4.4	4.0	0.0	0.0	19
20	0.0	7.2 *	0.3	0.2	0.4	0.4	1.8	4.4	4.1	4.0	0.0	0.0	20
21	0.0	7.4 *	0.1	6.4 *	0.4	0.4	1.8	4.4	4.4	4.0	0.0	0.0	21
22	0.0	2.8	0.1	1.4	0.4	0.5	1.4	4.4	4.4	4.0	0.0	0.0	22
23	0.0	1.0	0.1	6.7	0.4	0.7	1.6	4.7	4.7	4.0	0.0	0.0	23
24	0.0	0.8	0.1	1.6	0.4	1.0	1.6	4.4	4.4	4.0	0.0	0.0	24
25	0.0	0.7	0.3	0.1	0.5	0.4	1.6	4.4	4.4	4.0	0.0	0.0	25
26	0.1	0.5	0.3	1.2	0.6	0.0	1.4	4.4	4.4	4.0	0.0	0.0	26
27	0.1	0.4	0.1	0.2	0.6	10 *	1.4	4.4	4.4	4.0	0.0	0.0	27
28	0.0	0.4	0.1	0.2	0.6	13	1.6	4.4	4.4	4.0	0.0	0.0	28
29	0.0	0.2	0.1	0.2	0.6	12	1.6	4.7	4.4	4.0	0.0	0.0	29
30	0.1	0.2	0.3	0.2	13	1.7	1.7	4.6	4.4	4.0	0.0	0.0	30
21	0.0	0.1	0.1	0.2	0.4	9.4	4.4	4.4	4.4	4.0	0.0	0.0	21
MEAN	0.1	0.7	0.3	1.1	0.4	2.9	12.6	4.0	1.1	0.1	0.0	0.0	MEAN
MAX.	0.0	7.4	0.4	14.0	1.1	13.0	103	9.4	4.4	4.4	0.0	0.0	MAX.
MIN.	0.1	0.0	0.2	0.2	0.2	0.1	1.3	1.7	4.4	4.4	0.0	0.0	MIN.
AC. FT.		6.3	18	70	22	177	75.0	28.0	18.7	4			AC. FT.

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY

± - E AND R

MEAN DISCHARGE	DISCHARGE	MAXIMUM DATE	MT	MO	DAY	TIME	MINIMUM DISCHARGE	DATE	MT	MO	DAY	TIME	TOTAL ACRE FEET
2.1	174	4.65	4	1	1200		0.4			1	1	0000	1552

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R S.B.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE				FROM	TO		
31° 18.4'	117° 18.4'	NE32 3N 4W	2750	5.90	2/12/62	Jan 61-Date	Jan 61-Date		1/61	1/62	2.80 3.40	U.S.G.S. U.S.G.S.
Station is located 2 miles NE of Cedar Springs on left bank of West Fork of Mojave River at State Highway 118 Crossing. Drainage area is 19.8 square miles.												

TABLE B-5  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1964	V92250	E.F. OF WEST FORK OF THE MOJAVE RIVER ABOVE CEDAR SPRINGS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	2.8	0.7	0.5	0.9	0.6	37 *	4.4	0.8	0.1	0.0	0.0	1
2	0.1	0.4	0.7	0.5	0.5	0.9	27 *	4.4	0.8	0.1	0.0	0.0	2
3	0.0	0.4	0.7	0.5	0.8	0.7	15 *	4.6	0.8	0.1	0.0	0.0	3
4	0.1	0.4	0.8	0.5	0.8	0.6	10	4.9	0.8	0.1	0.0	0.0	4
5	0.1	0.4	0.8	0.5	0.8	0.6	6.5	5.2	0.7	0.1	0.0*	0.0	5
6	0.1	0.8	0.7	0.4	0.8	0.6	7.4	6.8	0.7	0.1	0.0	0.0	6
7	0.1	0.7	0.7	0.5	0.8	0.6	6.8	6.6*	0.7	0.1	0.0*	0.0	7
8	0.1	0.5	0.7	0.4	0.7	0.6	8.6	6.2	0.8	2.0	0.0	0.0*	8
9	0.1	0.6	0.9	0.4	0.7	0.5	6.2	5.3	1.2	5.7	0.0	0.0	9
10	0.1	0.4	0.9	0.5	0.6	0.5	6.1	5.1	0.7	6.5	0.0	0.0	10
11	0.1	0.4	0.7	0.4	0.7	0.5	6.1	4.5	0.7	6.7	0.0	0.0	11
12	0.1	0.6	0.7	0.4	0.8	0.6	5.6	4.0	0.6	6.7	0.0	0.0	12
13	0.1	0.4	0.7	0.4	0.7	0.6	5.1	3.5	0.5	3.6	0.0	0.0	13
14	0.1	0.4	0.6	0.4	0.7	0.6	5.0	3.1	0.5	0.2	0.0	0.0	14
15	0.1	1.1	0.6	0.4	0.6	0.5	4.8	2.8	0.4	0.1	0.0	0.0	15
16	0.3	1.1	0.6	0.4	0.7	0.4	4.5	2.4	0.4	0.1	0.0	1.5	16
17	0.8	0.7	0.6	0.4	0.7	0.4	4.6	2.2	0.4*	0.0	0.0	4.8	17
18	1.1	0.6	0.6	0.4	0.6	0.4	4.6	1.9	0.4	0.0	0.0	5.5	18
19	0.5	0.6	0.5	0.4	0.6	0.4	5.5	1.9*	0.4	0.0	0.0	2.6	19
20	0.4	0.1*	0.5	0.4	0.5	0.4	4.6	2.0	0.4	0.0	0.0	0.0	20
21	0.4	1.0	0.5	0.2*	0.6	0.4	4.6	1.5	0.3	0.0*	0.0	0.0	21
22	0.3	1.4	0.5	0.3	0.6	0.5	4.6	1.4	0.3	0.0	0.0	0.0	22
23	0.3	1.2	0.5	2.1	0.6	0.8	4.6	1.4	0.2	0.0*	0.0	0.0*	23
24	0.3	1.1	0.5	1.5	0.6	0.8	4.9	1.3	0.2	0.0	0.0	0.0	24
25	0.3	1.0	0.5	1.3	0.6	1.0	4.4	1.2	0.2	0.0	0.0	0.0	25
26	0.3	0.9	0.5	1.2	0.6	1.3	4.0	1.2	0.1	0.0	0.0	0.0	26
27	0.2	0.7	0.5	1.1	0.6	1.7	4.2	1.1	0.1	0.0	0.0	0.0	27
28	0.3	0.7	0.5	1.1	0.6	2.3	4.2	1.1	0.1	0.0	0.0	0.0	28
29	1.0	0.7	0.8	1.0	0.7	2.9	4.2	1.1	0.1	0.0	0.0	0.0	29
30	4.2	0.7	0.5	1.0	0.6	3.3	4.4	0.9	0.1	0.0	0.0	0.0*	30
31	4.5		0.5	0.9		4.1		0.9		0.0*	0.0*		31
MEAN	0.6	1.0	0.6	0.9	0.7	1.0	7.5	3.1	0.5	1.0	0.0	0.5	MEAN
MAX.	4.5	6.1	0.9	5.2	0.9	4.1	37.0	6.8	1.2	6.7	0.0	5.5	MAX.
MIN.	0.0	0.4	0.5	0.4	0.6	0.4	4.0	0.9	0.1	0.0	0.0	0.0	MIN.
AC FT.	3.5	5.8	3.8	5.8	4.0	6.0	44.9	18.8	2.9	6.4		2.9	AC FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND R

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRE FEET
1.4	64.0	0.0	1047

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1.4 SEC. T. & R. S.B.B.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE
			CF3	GAGE HT.	DATE				FROM	TO	
36° 16.3'	117° 17.5'	GM10 ON NW	4.86	4.85	3/31/65	Mar 61-Date	Mar 61-Date		3/61	10/61	1.80
									11/61		2.31
											U.S.G.S.

Station is located 2.2 miles east of Cedar Springs on the right bank of the East Fork of the West Fork of Mojave River.

Drainage area is 11.5 square miles.

TABLE B-5  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1964	V02300	WEST FORK OF THE MOJAVE RIVER ABOVE CEDAR SPRINGS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0*	0.0*	0.0	0.0	0.0	0.2	12.0*	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	8.0*	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	4.5*	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.4	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.4	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.9	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.9	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.8	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.7	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6	0.0	0.0	0.0	0.0	19
20	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.5	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.5	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.6	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.5	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.4	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.3	0.0	0.0	0.0	0.0	31
MEAN	0.0	0.0	0.0	0.2	0.3	0.4	2.1	0.8	0.0	0.0	0.0	0.0	MEAN
MAX	0.0	0.0	0.0	1.7	0.4	1.0	12.0	1.4	0.5	0.0	0.0	0.0	MAX
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN
AC FT		1	1	13	15	24	126	49	11				AC FT

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY  
- - E AND R

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 0.0	DISCHARGE 16.0 GAGE HT 4.42 MO 4 DAY 1 TIME 1800	DISCHARGE 0.0 GAGE HT 10 MO 10 DAY 1 TIME 0000	ACRE FEET 24.0

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R S.B.B & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
31° 17.1'	117° 22.5'	SW2 2N 5W	337	5.55	2/12/62	Feb 61-Date	Feb 61-Date	2/61	3.21	U.S.G.S.	
<p>Station is located 2.6 miles west of Cedar Springs on the left bank of the West Fork of Mojave River.</p> <p>Drainage area is 3.2 square miles.</p>											

TABLE B-5  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

TABLE B-5

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.		STATION NAME									
1964		32330		ELIZABETH LAKE CANYON CREEK ABOVE CASTAIC									
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.6	1.0	7.1	1.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.6	1.1	5.3	1.3	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.6	1.1	3.9	1.9	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.1	0.5	1.0	3.2	2.4	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.1	0.5	1.1	2.9	2.9	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.1	0.5	1.1	2.5	4.1	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.5	0.5	5.0	2.0	4.5	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.6	0.5	7.1	1.8	3.3	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.1	0.6	0.5	7.1	1.6	2.4	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.1	0.6	0.5	6.8	1.4	1.8	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.1	0.6	0.5	6.8	1.2	1.4	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.1	0.6	0.5	8.0	1.1	1.2	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.1	0.6	0.5	8.5	0.9	1.1	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.1	0.7	0.5	7.8	0.9	1.1	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.1	0.8	0.5	7.5	0.8	0.6	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.7	0.5	7.5	0.8	0.5	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.6	0.5	7.5	0.8	0.4	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.3	0.5	7.3	0.9	0.3	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.1	0.6	7.1	1.1	0.2	0.0	0.0	0.0	0.0	19
20	0.0	0.6	0.0	0.1	0.8	6.8	1.1	0.1	0.0	0.0	0.0	0.0	20
21	0.0	2.0	0.0	3.8	0.9	8.0	0.9	0.1	0.0	0.0	0.0	0.0	21
22	0.0	0.7	0.1	17	0.9	12	0.9	0.1	0.0	0.0	0.0	0.0	22
23	0.0	0.2	0.1	4.9	1.0	17	1.0	0.1	0.0	0.0	0.0	0.0	23
24	0.0	0.1	0.1	2.9	1.0	17	0.9	0.2	0.0	0.0	0.0	0.0	24
25	0.0	0.1	0.1	2.1	1.0	14	0.5	0.2	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.1	1.5	1.0	13	0.9	0.2	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.1	1.3	1.0	12	0.7	0.1	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	1.1	1.0	12	1.1	0.1	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.9	1.0	11	1.3	0.1	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.8	1.1	11	1.1	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.7	9.5			0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	0.1	0.0	1.4	0.7	7.0	1.7	1.1	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	2.0	0.1	17.0	1.0	17.0	7.1	4.5	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	MIN.
AC FT.		7	3	89	39	483	100	67					AC FT.

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.

== E AND R

MEAN DISCHARGE	MAXIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
1.1	44.0	2.99	1	22	0510	0.0		10	1	0000	788

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R S.B.B.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
34° 33.7'	116° 34.2'	3N36 6N 16W	1410	5.20	2/11/62	Jan 62-Date	Jan 62-Date	1/62 2/63	1/63	1.82 2.15	Local Local
Station is located 3.9 miles north of intersection of Castaic Canyon Road and Elizabeth Lake Canyon Road on left bank of stream at Canyon Christian Camp.											
Drainage area is 45.7 square miles.											

TABLE B-5  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1964	32360	CASTAIC CREEK AT VENTURA RANCHO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MEAN
MAX	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MAX
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN
AC FT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	AC FT

E - ESTIMATED

NR - NO RECORD

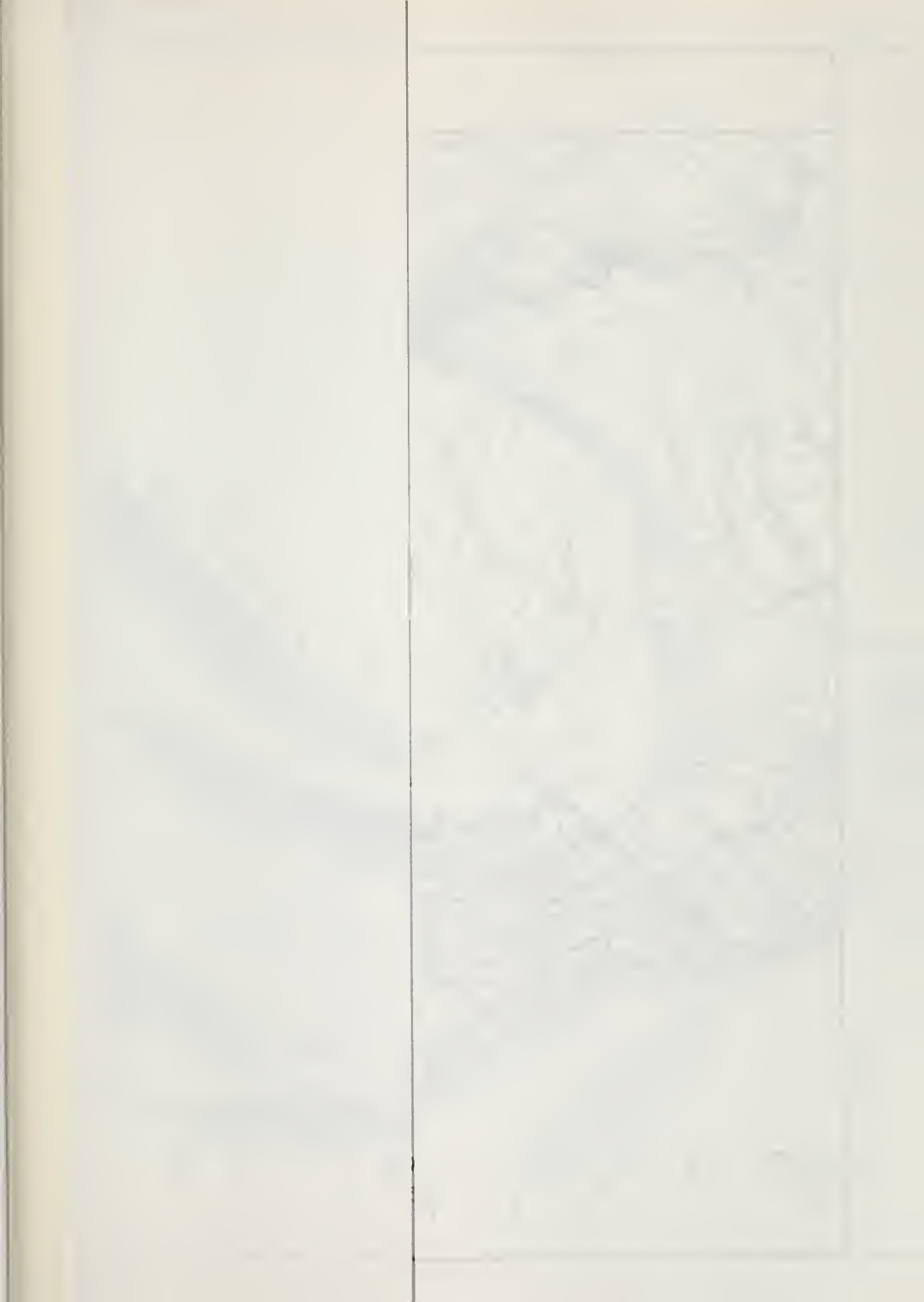
\* - DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.

- - E AND R

MEAN DISCHARGE	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	TOTAL
0.0	1.1	3.17	1.22	0.00	1.00

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R S.B.B.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT	DATE			FROM	TO		
34° 36.7'	115° 39.8'	NE22 6N 17W	3790	5.35	2/11/62	Jan 62-Date	Jan 62-Date	1/62	2/62	2.10	Local
								3/62	2/63	1.53	Local
										2.23	Local
Station is located 6.7 miles west of Elizabeth Lake Canyon Road on Castaic Canyon Road on left bank.											
Drainage area is 65.0 square miles.											



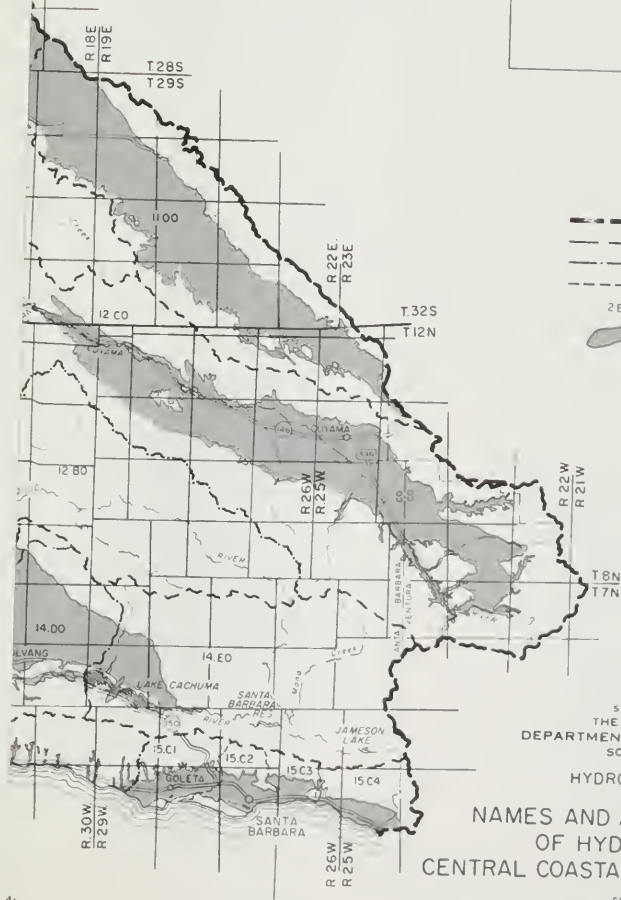












STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

7 NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
CENTRAL COASTAL DRAINAGE PROVINCE (T)

SCALE OF MILES

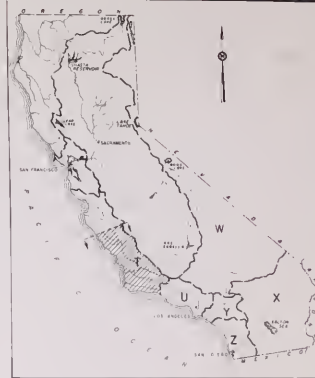




AREAL DESIGNATIONS  
HYDROLOGIC UNITS, SUBUNITS AND SUBAREAS

CENTRAL COASTAL DRAINAGE PROVINCE

- T-05-00 SALINAS HYDRO UNIT  
T-05-01 PAGO ROBLES HYDRO SUBUNIT  
T-05-10 PAGO ROBLES HYDRO SUBUNIT
- T-10-00 SAN LUIS ORO HYDRO UNIT  
T-10-01 CAMBRIA HYDRO SUBUNIT  
T-10-02 SAN CARPO HYDRO SUBAREA  
T-10-03 ARROYO DE LA CRUZ HYDRO SUBAREA  
T-10-04 SAN SIMON HYDRO SUBAREA  
T-10-05 SANTA ROSA HYDRO SUBAREA  
T-10-06 VILLA HYDRO SUBAREA  
T-10-07 CAHUENS HYDRO SUBAREA  
T-10-08 OLD HYDRO SUBAREA  
T-10-09 YORD HYDRO SUBAREA  
T-10-10 SAN LUIS ORO HYDRO SUBUNIT  
T-10-11 FLORES HYDRO SUBAREA  
T-10-12 LOS OROS HYDRO SUBAREA  
T-10-13 SAN LUIS ORO HYDRO SUBAREA  
T-10-14 POINT SAN LUIS HYDRO SUBAREA  
T-10-15 PISMO HYDRO SUBAREA  
T-10-16 ARROYO GRANDE HYDRO SUBAREA  
T-10-17 ALFONSO MEIA HYDRO SUBAREA
- T-13-00 CARRIZO PLAIN HYDRO UNIT
- T-17-00 SANTA MARIA-CUWANA HYDRO UNIT  
T-17-01 SANTA MARIA HYDRO SUBUNIT  
T-17-02 LINDO HYDRO SUBUNIT  
T-17-03 CUNAWA VALLEY HYDRO SUBUNIT
- T-18-00 SANTA YNEZ HYDRO UNIT  
T-18-01 LINDO HYDRO SUBUNIT  
T-18-02 SANTA YNEZ HYDRO SUBUNIT  
T-18-03 BUELLTON HYDRO SUBUNIT  
T-18-04 SANTA YNEZ HYDRO SUBUNIT  
T-18-05 HEADWATER HYDRO SUBUNIT
- T-19-00 SANTA BARBARA HYDRO UNIT  
T-19-01 SOUTHERN COAST HYDRO SUBUNIT  
T-19-02 SANTA BARBARA HYDRO SUBAREA  
T-19-03 MONTECITO HYDRO SUBAREA  
T-19-04 CARPINTERIA HYDRO SUBAREA
- T-20-00 SANTA BARBARA CH IS HYDRO UNIT  
T-20-01 SAN MIGUEL ISLAND HYDRO SUBUNIT  
T-20-02 SANTA ROSA ISLAND HYDRO SUBUNIT  
T-20-03 SANTA CRUZ ISLAND HYDRO SUBUNIT

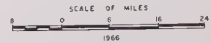


- LEGEND
- DRAINAGE PROVINCE BOUNDARY
  - HYDROLOGIC UNIT BOUNDARY
  - HYDROLOGIC SUBUNIT BOUNDARY
  - HYDROLOGIC SUBAREA BOUNDARY
  - 283 AREAL CODE NUMBER
  - Water bearing sediments

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
CENTRAL COASTAL DRAINAGE PROVINCE (T)



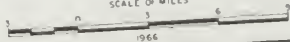


STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LOS ANGELES DRAINAGE PROVINCE (U)

SCALE OF MILES









```

def test():
    """Test the function"""
    # Create a list of numbers
    numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
    # Call the function
    result = my_function(numbers)
    # Print the result
    print(result)
    # Expected output: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

```

8478 18800261 P 187 97080 LP11  
189480 81419 917 9 80415  
18661 708 17784

[illegible]

1. 1990年1月1日以前出生者，其父母一方或双方为华侨、归侨、侨眷，且其本人具有中国国籍者，可认定为华侨、归侨、侨眷。

[illegible][illegible]

```

THOUSAND ONE, HYPER SUBMIT
pg [hy] m[db] m[st]
TOTALS HYPER SUBMIT

```

[illegible][illegible]

010101 0000 0000 0000 0000 0000 0000 0000 0000  
 010101 0000 0000 0000 0000 0000 0000 0000  
 010101 0000 0000 0000 0000 0000 0000 0000  
 010101 0000 0000 0000 0000 0000 0000 0000

1. 23110 JAYON HONRO SUBARU  
2. 23110 JAYON HONRO SUBARU  
3. 23110 JAYON HONRO SUBARU  
4. 23110 JAYON HONRO SUBARU

1. 4150 44th Ave N, Suite 100  
 2. 4150 44th Ave N, Suite 100  
 3. 4150 44th Ave N, Suite 100  
 4. 4150 44th Ave N, Suite 100

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

L & LME JARRIPY RIVER HYDRO UNIT  
CRYSTAL BL OF LA @ HYDRO SWAMP  
RELIABLE LARGE HYDRO SWAMP

WILSON, DAVID WILSON, SUSAN  
YOUNG MORRIS MILDRED GUNDEL  
MILLER, WOODWARD MARY YOUNG  
FELDMAN, JIMMY L. YOUNG

THE UNIVERSITY OF TEXAS AT AUSTIN

100% of the total sample.

PAUL A. B. W. RO. 2004000000  
\*00000000 000000 00000000  
0000000000 000000 00000000  
000000 0000 0000 00000000

1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815

本報地址：新加坡大馬路門牌第...  
電話：(06) 238 7111  
傳真：(06) 238 7112

[illegible]

\*AM REPORT ON ISSUES AND ACTIONS  
RECEIVED 7 JAN 1960 SUBJECT

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*Date: 08/07/93 15:40:00
*Machine: WD80C85
*Vendor: WD80C85
*Model: WD80C85

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[illegible]

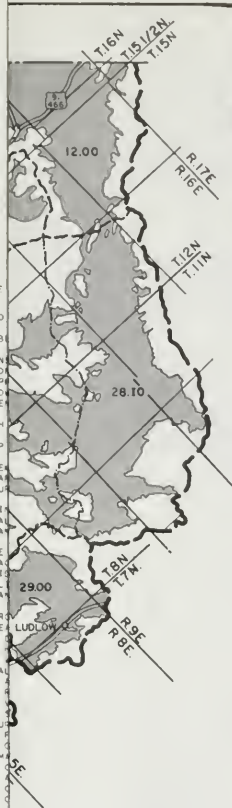
STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT  
HYDROLOGIC DATA, 1964  
MILES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
ANGELES DRAINAGE PROVINCE (U)

A horizontal scale bar with markings at 0, 1, 2, 3, 4, and 5 miles. The text "SCALE 0 MILES" is centered above the bar.



LAHONTAN DRAINAGE PROVINCE

- W-01.00 MONO  
W-02.00 ADON  
W-03.00 OWEN  
W-03.40 LO  
W-03.80 UP  
W-03.C0 LO  
W-03.D0 CE  
W-04.00 FISH  
W-05.00 DEEP  
W-06.00 EURE  
W-06.40 MA  
W-06.80 EUS  
W-07.00 SALI  
W-07.40 SA  
W-07.80 CA  
W-08.00 RACE  
W-08.40 RA  
W-08.80 HI  
W-08.C0 UL  
W-08.D0 SA  
W-09.00 AMAR  
W-09.40 DE  
W-09.A1 LUDLO  
W-09.A2  
W-09.A3 VAL  
W-09.80  
W-09.B1  
W-09.B2  
W-09.B3  
W-09.B4  
W-09.C0  
W-09.C1  
W-09.C2  
W-09.D0  
W-09.D1  
W-09.D2  
W-09.D3  
W-09.D4  
W-10.00 PAHR  
W-11.00 MESO  
W-12.00 IVAN  
W-13.00 OWLS  
W-13.40 LOS  
W-13.80 OWL  
W-14.00 LEACH  
W-15.00 NELS  
W-15.40 MCL  
W-15.80 NEL  
W-16.00 BICY  
W-17.00 GOLO  
W-18.00 COYO  
W-19.00 SUP  
W-20.00 PANAM  
W-20.40 WIN  
W-20.80 WIL  
W-20.B1  
W-20.B2  
W-20.C0 LEE  
W-20.D0 SAN  
W-20.D1  
W-20.D2  
W-20.D3  
W-20.E0 DAR  
W-20.F0 PAN  
W-20.G0 BRQ  
W-20.H0 RO



KEY MAP

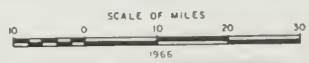
LEGEND

- DRAINAGE PROVINCE BOUNDARY  
--- HYDROLOGIC UNIT BOUNDARY  
--- HYDROLOGIC SUBUNIT BOUNDARY  
--- HYDROLOGIC SUBAREA BOUNDARY  
2B3 AREAL CODE NUMBER  
Water bearing segments

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)







STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)

LEGEND

- STATE PROVINCE BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBUNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- AREA CODE NUMBER
- WATER MEANING ELEMENTS

KEY MAP

SCALE OF MILES

0 10 20 30

- 
- STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT
- HYDROLOGIC DATA, 1964
- NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)
- LEGEND
- STATE PROVINCE BOUNDARY
  - HYDROLOGIC UNIT BOUNDARY
  - HYDROLOGIC SUBUNIT BOUNDARY
  - HYDROLOGIC SUBAREA BOUNDARY
  - AREA CODE NUMBER
  - WATER MEANING ELEMENTS
- KEY MAP
- SCALE OF MILES
- 0 10 20 30

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)

LEGEND

- STATE PROVINCE BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBUNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- AREA CODE NUMBER
- WATER MEANING ELEMENTS

KEY MAP

SCALE OF MILES

0 10 20 30

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)

LEGEND

- STATE PROVINCE BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBUNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- AREA CODE NUMBER
- WATER MEANING ELEMENTS

KEY MAP

SCALE OF MILES

0 10 20 30

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)

LEGEND

- STATE BOUNDARY
- COUNTY BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- AREAL CODE NUMBER
- WATER MEANING ELEMENTS

SCALE OF MILES

0 10 20 30

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
LAHONTAN DRAINAGE PROVINCE (W)

LEGEND

- STATE BOUNDARY
- COUNTY BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- AREAL CODE NUMBER
- WATER MEANING ELEMENTS

SCALE OF MILES

0 10 20 30





HYDROLOG  
COLORADO RIVER

X=01.00  
X=02.00  
X=03.00  
X=04.00  
X=05.00  
X=06.00  
X=07.00  
X=08.00  
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X=09.B0  
X=10.00  
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X=10.B0  
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X=12.00  
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X=15.B0  
X=15.C0  
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X=17.00  
X=17.A0  
X=17.B0  
X=17.C0  
X=17.D0  
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X=22.F1  
X=22.F2  
X=22.F3  
X=22.G0  
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X=22.G2  
X=23.00  
X=23.A0  
X=23.B0  
X=24.00  
X=25.00  
X=26.00  
X=27.00



LEGEND

— DRAINAGE PROVINCE BOUNDARY

--- HYDROLOGIC UNIT BOUNDARY

--- HYDROLOGIC SUBUNIT BOUNDARY

--- HYDROLOGIC SUBAREA BOUNDARY

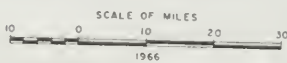
283 AREAL CODE NUMBER

WATER BEARING SEDIMENTS

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
COLORADO RIVER BASIN DRAINAGE PROVINCE (X)

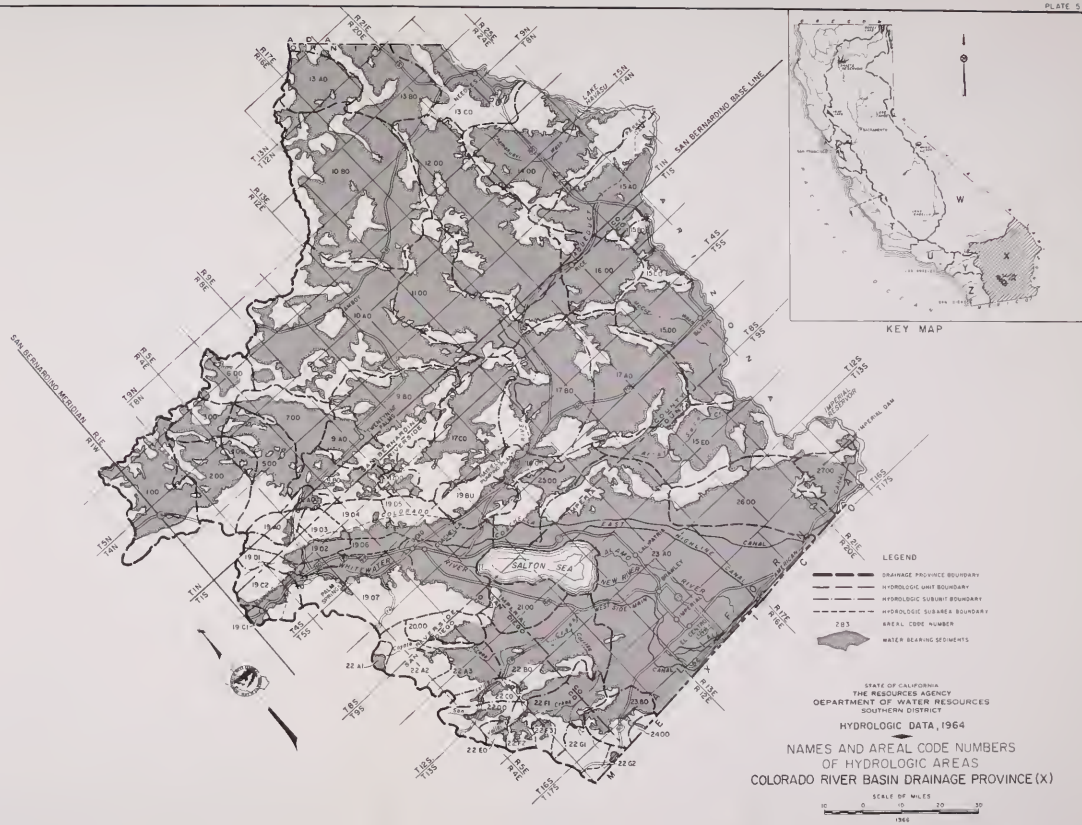






AREAL DESIGNATIONS  
HYDROLOGIC UNITS, SUBUNITS AND SUBAREAS  
COLORADO RIVER BASIN DRAINAGE PROVINCE

- E-01.00 LUCERNE HYDRO UNIT
- A-02.00 JOHNSON HYDRO UNIT
- E-03.00 BESSNER HYDRO UNIT
- A-04.00 MEARS HYDRO UNIT
- E-05.00 EMERSON HYDRO UNIT
- E-06.00 LEVIE HYDRO UNIT
- E-07.00 DEANMAN HYDRO UNIT
- A-08.00 JOSHUA TREE HYDRO UNIT
- E-09.00 WARREN HYDRO SUBUNIT
- E-10.00 COPPER MOUNTAIN HYDRO SUBUNIT
- E-09.00 DALE HYDRO UNIT
- E-09.01 TWENTYNINE PALMS HYDRO SUBUNIT
- E-09.02 DALL HYDRO SUBUNIT
- A-10.00 BRISTOL HYDRO UNIT
- E-10.00 BRISTOL HYDRO SUBUNIT
- E-10.00 PENNER HYDRO SUBUNIT
- E-11.01 CADIZ HYDRO UNIT
- E-12.00 WARD HYDRO UNIT
- E-12.00 PRUITT HYDRO UNIT
- E-12.01 SANJOSE HYDRO SUBUNIT
- E-12.02 PIONEER HYDRO SUBUNIT
- E-12.03 NEEDLES HYDRO SUBUNIT
- E-13.00 CHENECHUESS HYDRO UNIT
- E-13.00 COLORADO HYDRO UNIT
- E-13.01 VISION HYDRO SUBUNIT
- E-13.02 BIG WASH HYDRO SUBUNIT
- E-13.03 DUTCH LANE HYDRO SUBUNIT
- E-13.04 PALL HYDRO HYDRO SUBUNIT
- E-13.05 ARROYO DECO HYDRO SUBUNIT
- E-18.00 NICE HYDRO UNIT
- E-17.00 CHUCKAWALLA HYDRO UNIT
- E-17.01 FORD HYDRO SUBUNIT
- E-17.02 PALM HYDRO SUBUNIT
- E-17.03 PIANO HYDRO SUBUNIT
- E-17.04 PLEASANT HYDRO SUBUNIT
- E-18.00 HARTFIELD HYDRO UNIT
- E-18.01 WHITEWATER HYDRO UNIT
- E-18.02 MONTEGO HYDRO SUBUNIT
- E-18.03 SHAWNEE HYDRO SUBUNIT
- E-19.00 SAN GORGONIO HYDRO SUBUNIT
- E-19.01 BEAUMONT HYDRO SUBAREA
- E-19.02 SAN GORGONIO HYDRO SUBAREA
- E-19.03 GARDEN HILL HYDRO SUBAREA
- E-19.04 MISSOURI CREEK HYDRO SUBAREA
- E-19.05 WHEEL HILL HYDRO SUBAREA
- E-19.06 SBY VALLEY HYDRO SUBAREA
- E-19.07 PANGE CANYON HYDRO SUBAREA
- E-19.08 THOUSAND PALMS HYDRO SUBAREA
- E-19.09 INDIO HYDRO SUBAREA
- E-20.00 CLARK HYDRO UNIT
- E-21.00 WEST SALTON SEA HYDRO UNIT
- E-22.00 ANZA BORRERO HYDRO UNIT
- E-22.01 SOUTHERN HYDRO SUBUNIT
- E-22.02 TIFINILLER HYDRO SUBAREA
- E-22.03 CALICO HYDRO SUBAREA
- E-22.04 BORRERO HYDRO SUBAREA
- E-22.05 DOCTYLLER & FELICE HYDRO SUBUNIT
- E-22.06 RESCAL BARREN HYDRO SUBUNIT
- E-22.07 SAN FELICE HYDRO SUBUNIT
- E-22.08 PALM HYDRO SUBUNIT
- E-22.09 VALLEJO-CABRITO HYDRO SUBUNIT
- E-22.10 CAFFELO HYDRO SUBAREA
- E-22.11 VALLEJO HYDRO SUBAREA
- E-22.12 CAHILL HYDRO SUBAREA
- E-22.13 JACOBIA HYDRO SUBUNIT
- E-22.14 MICHAEL HYDRO SUBAREA
- E-22.15 JACOBIA HYDRO SUBAREA
- E-23.00 IMPERIAL HYDRO UNIT
- E-23.01 IMPERIAL HYDRO SUBUNIT
- E-23.02 WHITE WELLS HYDRO SUBUNIT
- E-24.00 DALY HYDRO UNIT
- E-25.00 EAST SALTON SEA HYDRO UNIT
- E-26.00 ANS-DELLBY HYDRO UNIT
- E-27.00 PURA HYDRO UNIT



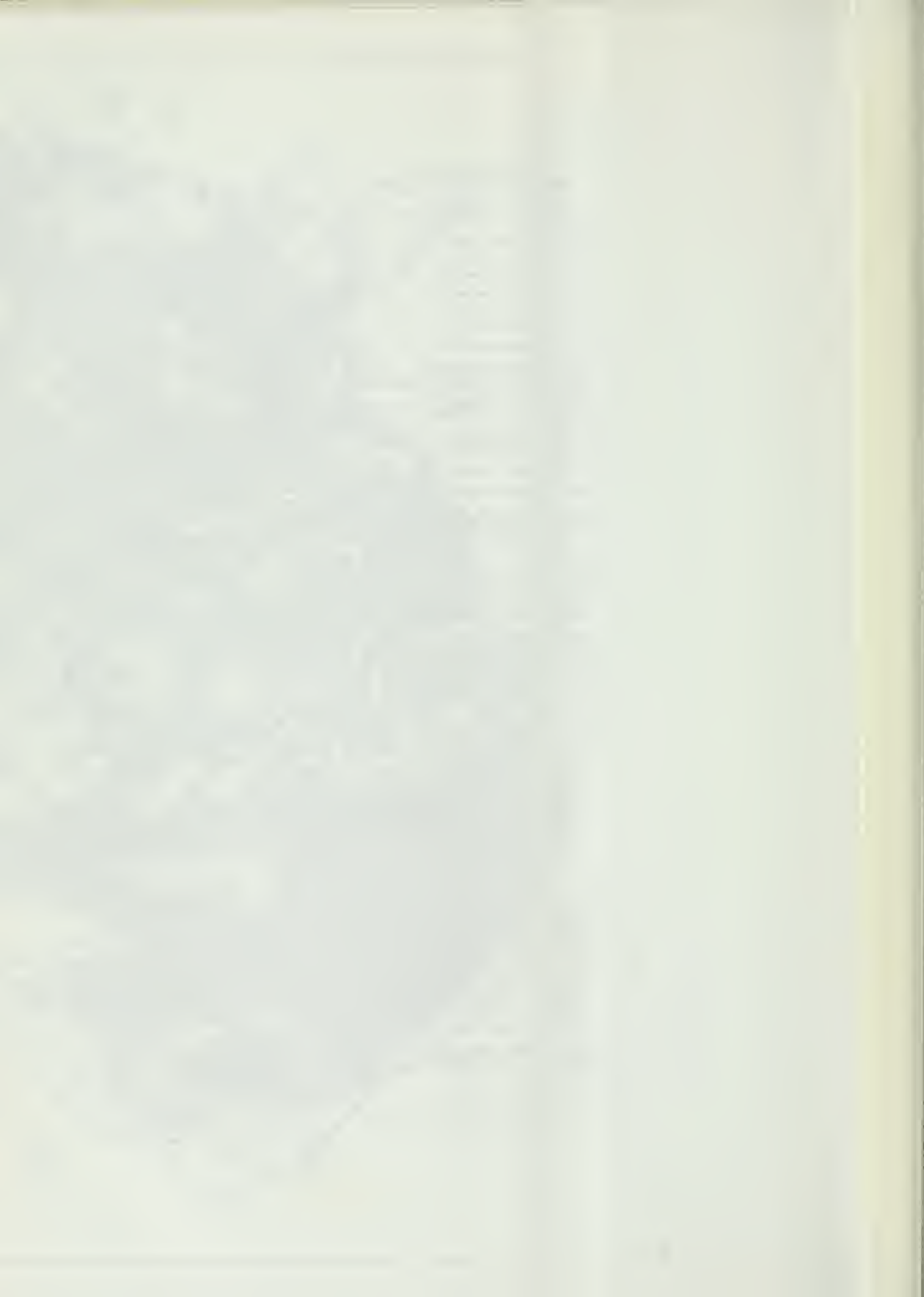
KEY MAP

- LEGEND
- DRAINAGE PROVINCE BOUNDARY
  - HYDROLOGIC UNIT BOUNDARY
  - HYDROLOGIC SUBUNIT BOUNDARY
  - HYDROLOGIC SUBAREA BOUNDARY
  - 283 AREAL CODE NUMBER
  - WATER BEARING SEDIMENTS

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT  
HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
COLORADO RIVER BASIN DRAINAGE PROVINCE (X)

SCALE OF MILES  
0 10 20 30  
1964



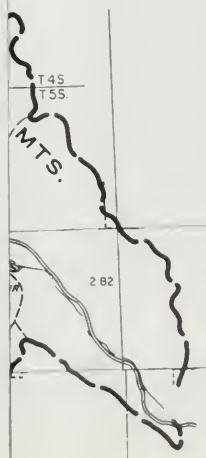


KEY MAP

IN  
IS

LEGEND

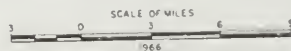
- DRAINAGE PROVINCE BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBUNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- 283 AREAL CODE NUMBER
- WATER BEARING SEDIMENTS



STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
SANTA ANA DRAINAGE PROVINCE (Y)

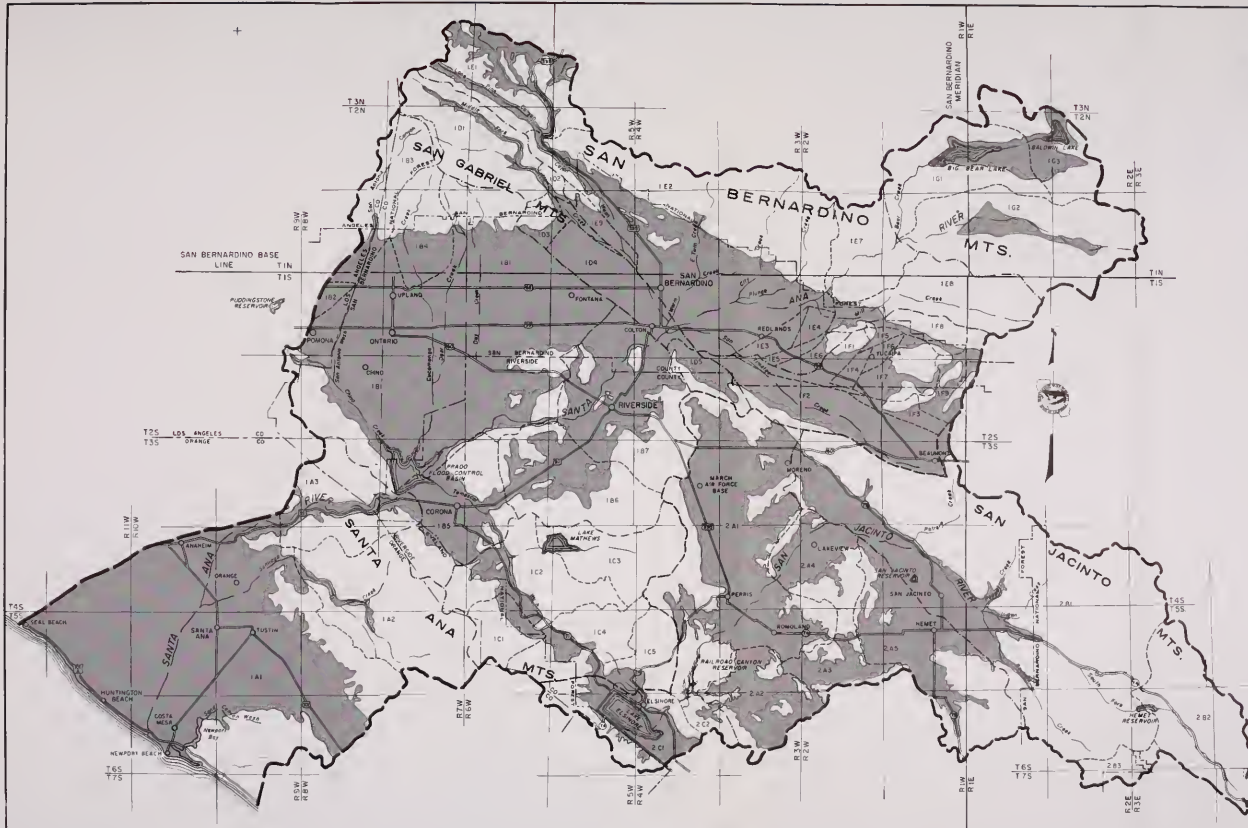




AREAL DESIGNATIONS  
HYDROLOGIC UNITS, SUBUNITS AND SUBAREAS

SANTA ANA DRAINAGE PROVINCE

- 1-01000 SANTA ANA RIVER HYDRO UNIT
- 1-01040 LONG SANTA ANA RIVER HYDRO SUBUNIT
- 1-01041 EAST LUSTAL PLAIN HYDRO SUBAREA
- 1-01042 SANTIAGO HYDRO SUBAREA
- 1-01043 SANTA ANA WARDENS HYDRO SUBAREA
- 1-01044 NORTHERN SANTA ANA RIVER HYDRO SUBUNIT
- 1-01045 CHINO HYDRO SUBAREA
- 1-01046 HARRISON HYDRO SUBAREA
- 1-01047 CLAREMONT HEIGHTS HYDRO SUBAREA
- 1-01048 CUFAMOUNT HYDRO SUBAREA
- 1-01049 TEMECAL HYDRO SUBAREA
- 1-01050 ANCHUTON HYDRO SUBAREA
- 1-01051 RIVERSIDE HYDRO SUBAREA
- 1-01052 LAKE MONTANA HYDRO SUBUNIT
- 1-01053 COLUMBIAN HYDRO SUBAREA
- 1-01054 BEAUFORT HYDRO SUBAREA
- 1-01055 EL JALCO HYDRO SUBAREA
- 1-01056 LEE LAKE HYDRO SUBAREA
- 1-01057 TEMA COTA HYDRO SUBAREA
- 1-01058 COLTON RIALTY HYDRO SUBUNIT
- 1-01059 UPPER LITTLE HYDRO SUBAREA
- 1-01060 LOWER LITTLE HYDRO SUBAREA
- 1-01061 UPPER COLTON RIALTY HYDRO SUBAREA
- 1-01062 COLTON RIALTY HYDRO SUBAREA
- 1-01063 RISING HYDRO SUBAREA
- 1-01064 UPPER SANTA ANA HYDRO SUBUNIT
- 1-01065 CAJON HYDRO SUBAREA
- 1-01066 PLEASANT HYDRO SUBAREA
- 1-01067 PONTON HYDRO SUBAREA
- 1-01068 RESERVOIR HYDRO SUBAREA
- 1-01069 CANYON HYDRO SUBAREA
- 1-01070 SANTA ANA CANYON HYDRO SUBAREA
- 1-01071 MILL CREEK HYDRO SUBAREA
- 1-01072 SERRANO HYDRO SUBAREA
- 1-01073 SAN TIMOTHY HYDRO SUBUNIT
- 1-01074 PUCAPPA HYDRO SUBAREA
- 1-01075 SAN TIMOTHY HYDRO SUBAREA
- 1-01076 CORBIN HILLS HYDRO SUBAREA
- 1-01077 CROCKER HILLS HYDRO SUBAREA
- 1-01078 ORANGE HILLS HYDRO SUBAREA
- 1-01079 OAK GLEN HYDRO SUBAREA
- 1-01080 SOUTH HILLS HYDRO SUBAREA
- 1-01081 TRIPLE FALES CREEK HYDRO SUBAREA
- 1-01082 NORTH CREEK HYDRO SUBAREA
- 1-01083 SAN BERNARDINO MTS HYDRO SUBUNIT
- 1-01084 BEAR VALLEY HYDRO SUBAREA
- 1-01085 SEVEN DAMS HYDRO SUBAREA
- 1-01086 PALMVALE HYDRO SUBAREA
- 1-01087 SAN JACINTO VALLEY HYDRO UNIT
- 1-01088 PERDID HYDRO SUBUNIT
- 1-01089 PERRIS VALLEY HYDRO SUBAREA
- 1-01090 MONTANA HYDRO SUBAREA
- 1-01091 WINDHOLTER HYDRO SUBAREA
- 1-01092 LAKEVIEW HYDRO SUBAREA
- 1-01093 HENRY HYDRO SUBAREA
- 1-01094 SAN JACINTO HYDRO SUBUNIT
- 1-01095 SAN JACINTO HYDRO SUBAREA
- 1-01096 MENET LAKE HYDRO SUBAREA
- 1-01097 BAUTISTA HYDRO SUBAREA
- 1-01098 ELIZABETH HYDRO SUBAREA
- 1-01099 ELLIOTT HYDRO SUBAREA
- 1-01100 BULLHORN HYDRO SUBAREA



- LEGEND
- DRAINAGE PROVINCE BOUNDARY
  - HYDROLOGIC UNIT BOUNDARY
  - HYDROLOGIC SUBUNIT BOUNDARY
  - HYDROLOGIC SUBAREA BOUNDARY
  - 63 AREAL CODE NUMBER
  - WATER BEARING SEDIMENTS

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT  
HYDROLOGIC DATA, 1964  
NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
SANTA ANA DRAINAGE PROVINCE (Y)

SCALE OF MILES  
0 1 2 3 4 5 6 7 8 9 10



SAN DIEGO DRAINAGE PROVINCE

Z-01.00 SAN JUAN HYDRQ  
 Z-01.A0 LAGUNA HYDRQ  
 Z-01.A1 SAN JOAQUIN  
 Z-01.A2 LAGUNA HYD  
 Z-01.A3 ALISO HYDR  
 Z-01.A4 DANA POINT  
 Z-01.B0 SAN JUAN HYD  
 Z-01.C0 SAN CLEMENTE  
 Z-01.D0 SAN MATEO HY  
 Z-01.E0 SAN ONOFRE H  
 Z-01.E1 SAN ONOFRE  
 Z-01.E2 LAS PULGAS  
 Z-01.E3 STUART HYD  
 Z-02.00 SANTA MARGARIT  
 Z-02.A0 YSIDORA HYDR  
 Z-02.A1 YSIDORA HY  
 Z-02.A2 CHAPPO HYD  
 Z-02.A3 UPPER HYDR  
 Z-02.B0 DE LUZ HYDRQ  
 Z-02.B1 DE LUZ HYD  
 Z-02.B2 GAVILAN HY  
 Z-02.B3 VALLECITOS  
 Z-02.C0 MURRIETA HYD  
 Z-02.C1 WILDOHAR H  
 Z-02.C2 MURRIETA H  
 Z-02.C3 FRENCH HYD  
 Z-02.C4 LOWER OME  
 Z-02.C5 DOMENIGONI  
 Z-02.C6 DIAMOND HY  
 Z-02.D0 AULO HYDRQ S  
 Z-02.D1 AULO HYDRQ  
 Z-02.D2 GERTRUDIS  
 Z-02.D3 LOWER TUCU  
 Z-02.D4 TUCALO H  
 Z-02.E0 PECHANGA HYD  
 Z-02.E1 PAUBA HYDR  
 Z-02.E2 PECHANGA H  
 Z-02.F0 WILSON HYDRQ  
 Z-02.F1 LANCASTER  
 Z-02.F2 LEWIS HYDR  
 Z-02.F3 WILSON HYD  
 Z-02.G0 ANZA HYDRQ S  
 Z-02.G1 LOWER COAH  
 Z-02.G2 UPPER COAH  
 Z-02.G3 ANZA HYDRQ  
 Z-02.G4 RUMAT HYDR  
 Z-02.H0 AGUANGA HYDR  
 Z-02.H1 VAIL HYDRQ  
 Z-02.H2 DEVILS HOL  
 Z-02.H3 REDEC HYDR  
 Z-02.H4 AGUANGA HY  
 Z-02.I0 OAKGROVE HYD  
 Z-02.I1 LOWER CULP  
 Z-02.I2 OAKGROVE H  
 Z-02.I3 OODGE HYDR  
 Z-02.I4 CHEHLAMIA  
 Z-03.00 SAN LUIS REY H  
 Z-03.A0 BONSAILL HYDR  
 Z-03.A1 MISSION HY  
 Z-03.A2 BONSAILL HY  
 Z-03.A3 MOOSA HYDR  
 Z-03.A4 VALLEY CEN  
 Z-03.A5 WOODS HYDR  
 Z-03.A6 RINCON HYD  
 Z-03.B0 MONSERATE HY  
 Z-03.B1 PALA HYDRQ  
 Z-03.B2 PAUMA HYDR  
 Z-03.B3 SAN LUIS R  
 Z-03.C0 WARNER HYDRQ  
 Z-03.C1 WARNER HYD  
 Z-03.C2 COMRS HYDR  
 Z-04.00 CARLSBAD HYDRQ  
 Z-04.A0 LOMA ALTA HY  
 Z-04.B0 VISTA HYDRQ  
 Z-04.B1 CARLSBAD H  
 Z-04.B2 VISTA HYDR  
 Z-04.C0 AGUA HEIDOND  
 Z-04.C1 AGUA HEIDOND  
 Z-04.C2 BUENA HYDR  
 Z-04.D0 ENCINAS HYDR  
 Z-04.E0 SAN MARCOS H  
 Z-04.E1 BATIGUITOS  
 Z-04.E2 SAN MARCOS  
 Z-04.E3 THIN OAKS  
 Z-04.F0 ESCONOIDO HY  
 Z-04.F1 SAN ELIJO  
 Z-04.F2 ESCONOIDO  
 Z-04.F3 LAKE WOLFE  
 Z-05.00 SAN DIEGUITO H  
 Z-05.A0 SAN DIEGUITO  
 Z-05.A1 SAN DIEGUITO  
 Z-05.A2 LA JOLLA H  
 Z-05.B0 HODGES HYDRQ  
 Z-05.B1 HODGES HYD  
 Z-05.B2 GREEN HYDR  
 Z-05.B3 FELICITA H  
 Z-05.B4 BEAR HYDRQ  
 Z-05.C0 SAN PASQUA  
 Z-05.C1 HIGHLAND H  
 Z-05.C2 SAN PASQUA  
 Z-05.C3 REED HYDRQ  
 Z-05.C4 HIDDEN HYD  
 Z-05.C5 GUEJITO HY  
 Z-05.C6 VINEYARD H  
 Z-05.D0 SANTA MARIA  
 Z-05.D1 RAMONA HYD  
 Z-05.D2 LOWER HATA  
 Z-05.D3 WASH MOLL  
 Z-05.D4 UPPER HATA  
 Z-05.D5 BALDWIN HY  
 Z-05.D6 EAST SANTA  
 Z-05.D7 WEST SANTA  
 Z-05.E0 SANTA YSABEL  
 Z-05.E1 MODEN HYDR  
 Z-05.E2 DAMO HYDRQ  
 Z-05.E3 SUTHERLAND  
 Z-05.E4 SANTA YSAB



KEY MAP

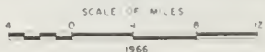
LEGEND

- DRAINAGE PROVINCE BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBUNIT BOUNDARY
- HYDROLOGIC SUBAREA BOUNDARY
- 283 AREAL CODE NUMBER
- Water Bearing Sediments

STATE OF CALIFORNIA  
 THE RESOURCES AGENCY  
 DEPARTMENT OF WATER RESOURCES  
 SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

NAMES AND AREAL CODE NUMBERS  
 OF HYDROLOGIC AREAS  
 SAN DIEGO DRAINAGE PROVINCE (Z)









## SAN DIEGO CRAINING PROVINCE

[illegible][illegible]

The map shows a study area with a dashed line boundary. Inside the boundary, the letters 'AI' are printed. To the left of the boundary, the text 'T65' and 'T75' is written vertically. Below the boundary, the text 'L-8 Gully' is written. To the right of the boundary, the text 'AI' is written vertically. A scale bar is located at the bottom left, and a north arrow is at the bottom right.

[illegible]

The map displays the Krasnodar Territory with its administrative districts. Each district is labeled with its name and a population figure. The districts and their populations are: Zelenokumsk (201), Krasnodar (203), Stepnoy (204), Krasnodarskiy (205), Krasnodarskiy (206), Krasnodarskiy (207), Krasnodarskiy (208), Krasnodarskiy (209), Krasnodarskiy (210), Krasnodarskiy (211), Krasnodarskiy (212), Krasnodarskiy (213), Krasnodarskiy (214), Krasnodarskiy (215), Krasnodarskiy (216), Krasnodarskiy (217), Krasnodarskiy (218), Krasnodarskiy (219), Krasnodarskiy (220), Krasnodarskiy (221), Krasnodarskiy (222), Krasnodarskiy (223), Krasnodarskiy (224), Krasnodarskiy (225), Krasnodarskiy (226), Krasnodarskiy (227), Krasnodarskiy (228), Krasnodarskiy (229), Krasnodarskiy (230), Krasnodarskiy (231), Krasnodarskiy (232), Krasnodarskiy (233), Krasnodarskiy (234), Krasnodarskiy (235), Krasnodarskiy (236), Krasnodarskiy (237), Krasnodarskiy (238), Krasnodarskiy (239), Krasnodarskiy (240), Krasnodarskiy (241), Krasnodarskiy (242), Krasnodarskiy (243), Krasnodarskiy (244), Krasnodarskiy (245), Krasnodarskiy (246), Krasnodarskiy (247), Krasnodarskiy (248), Krasnodarskiy (249), Krasnodarskiy (250), Krasnodarskiy (251), Krasnodarskiy (252), Krasnodarskiy (253), Krasnodarskiy (254), Krasnodarskiy (255), Krasnodarskiy (256), Krasnodarskiy (257), Krasnodarskiy (258), Krasnodarskiy (259), Krasnodarskiy (260), Krasnodarskiy (261), Krasnodarskiy (262), Krasnodarskiy (263), Krasnodarskiy (264), Krasnodarskiy (265), Krasnodarskiy (266), Krasnodarskiy (267), Krasnodarskiy (268), Krasnodarskiy (269), Krasnodarskiy (270), Krasnodarskiy (271), Krasnodarskiy (272), Krasnodarskiy (273), Krasnodarskiy (274), Krasnodarskiy (275), Krasnodarskiy (276), Krasnodarskiy (277), Krasnodarskiy (278), Krasnodarskiy (279), Krasnodarskiy (280), Krasnodarskiy (281), Krasnodarskiy (282), Krasnodarskiy (283), Krasnodarskiy (284), Krasnodarskiy (285), Krasnodarskiy (286), Krasnodarskiy (287), Krasnodarskiy (288), Krasnodarskiy (289), Krasnodarskiy (290), Krasnodarskiy (291), Krasnodarskiy (292), Krasnodarskiy (293), Krasnodarskiy (294), Krasnodarskiy (295), Krasnodarskiy (296), Krasnodarskiy (297), Krasnodarskiy (298), Krasnodarskiy (299), Krasnodarskiy (300).

**KEY MAP**

**LEGEND**

- DRAINAGE PROVINCE BOUNDARY
- HYDROLOGIC UNIT BOUNDARY
- HYDROLOGIC SUBUNIT BOUNDARY
- 283 AREAL CODE NUMBER
- WATER BEARING SEDIMENTS

**SAN DIEGO DRAINAGE PROVINCE**

STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

HYDROLOGIC DATA, 1964

**NAMES AND AREAL CODE NUMBER OF HYDROLOGIC AREAS**

**SAN DIEGO DRAINAGE PROVINCE**

SCALE OF MILES

[illegible]

### KEY MAP

LEGEND

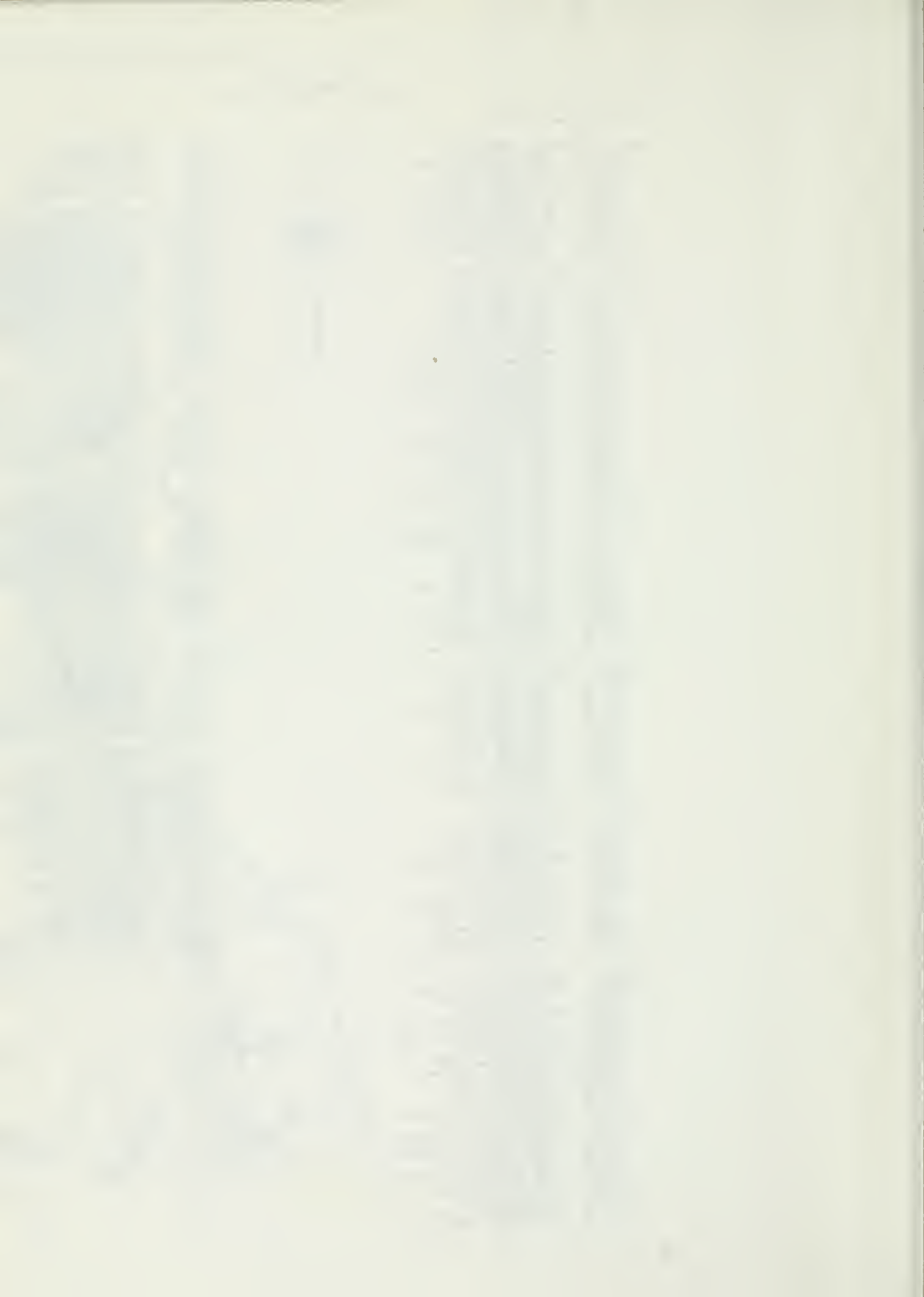
- 
- Diagram illustrating the boundaries and components of a sediment core:
- DRAINAGE PROVINCE BOUNDARY**: Indicated by a thick solid line.
  - HYDROLOGIC UNIT BOUNDARY**: Indicated by a thin solid line.
  - HYDROLOGIC SUBUNIT BOUNDARY**: Indicated by a dashed line.
  - HYDROLOGIC SUBAREA BOUNDARY**: Indicated by a dash-dot line.
  - AREAL CODE NUMBER**: A numerical value (e.g., 253) associated with a specific area.
  - WATER BEARING SEDIMENTS**: Indicated by a shaded area at the bottom of the core.

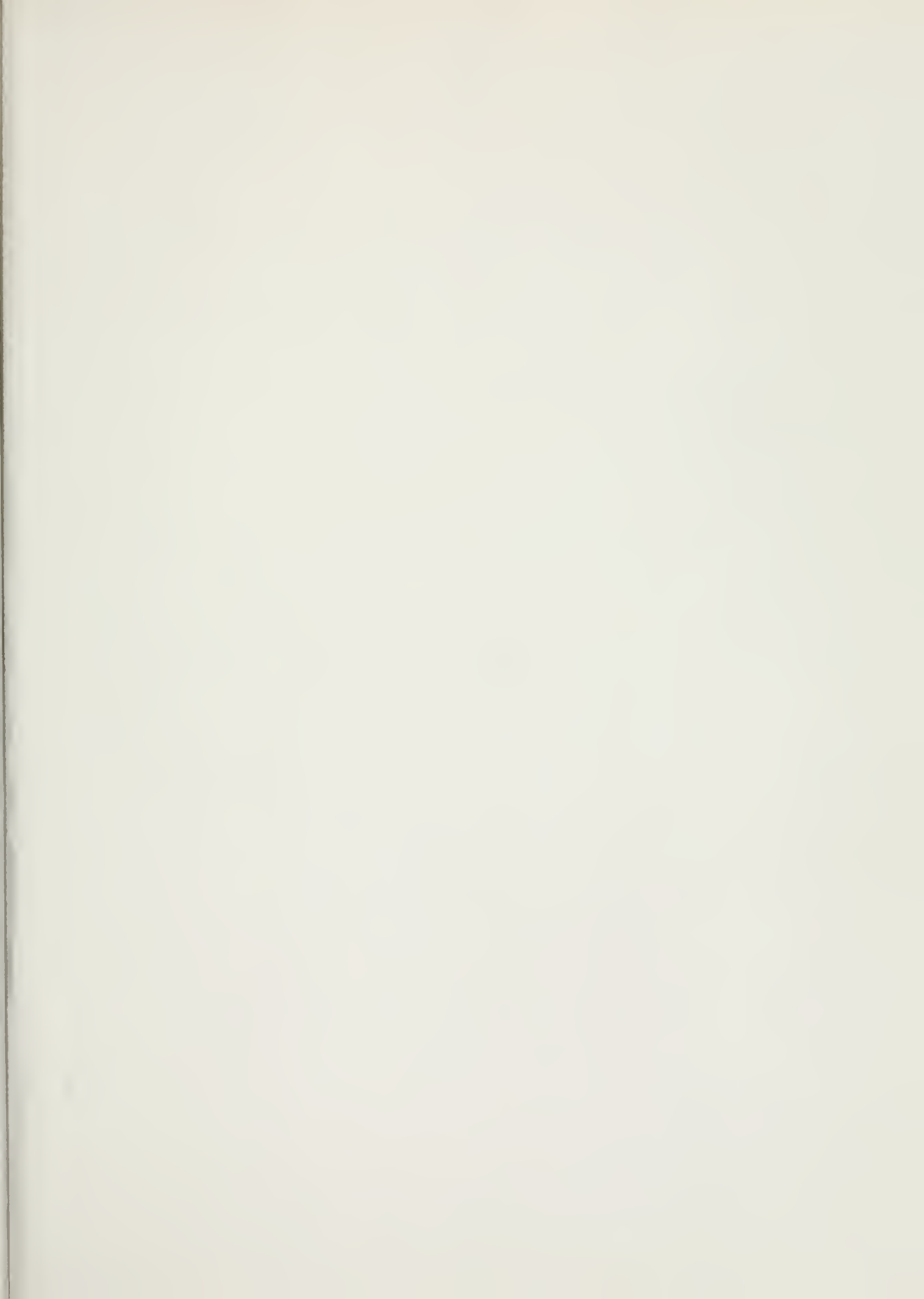
STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES  
SOUTHERN DISTRICT

NAMES AND AREAL CODE NUMBERS  
OF HYDROLOGIC AREAS  
SAN DIEGO DRAINAGE PROVINCE (Z)

SCALE OF MILES

1766









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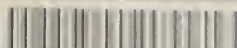
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